

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS <i>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30</i>				1. REQUISITION NUMBER		PAGE OF 1 215	
2. CONTRACT NO.		3. AWARD/ EFFECTIVE DATE	4. ORDER NUMBER		5. SOLICITATION NUMBER DU100F-16-R-0003		6. SOLICITATION ISSUE DATE
7. FOR SOLICITATION INFORMATION CALL:		a. NAME SHEMIKA WRAY		b. TELEPHONE NUMBER (No collect calls)		8. OFFER DUE DATE/LOCAL TIME 1400 ET	
9. ISSUED BY US DEPARTMENT OF HUD OFFICE OF THE CHIEF PROCUREMENT OFFICER 451 SEVENTH STREET SW ROOM 5256 WASHINGTON DC 20410-1000			CODE HUD-NOF	10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: % FOR: WOMEN-OWNED SMALL BUSINESS <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED <input type="checkbox"/> HUBZONE SMALL BUSINESS SMALL BUSINESS PROGRAM NAICS: 541512 <input type="checkbox"/> SERVICE-DISABLED <input type="checkbox"/> EDWOSB VETERAN-OWNED <input type="checkbox"/> 8(A) SIZE STANDARD: \$27.5 SMALL BUSINESS			
11. DELIVERY FOR FOB DESTINA- TION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE		12. DISCOUNT TERMS		<input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		13b. RATING	
15. DELIVER TO		CODE	16. ADMINISTERED BY US DEPARTMENT OF HUD OFFICE OF THE CHIEF PROCUREMENT OFFICER 451 SEVENTH STREET SW ROOM 5256 WASHINGTON DC 20410-1000				
17a. CONTRACTOR/ OFFEROR		CODE	FACILITY CODE	18a. PAYMENT WILL BE MADE BY			
TELEPHONE NO.				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER							
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	Period of Performance: 05/16/2016 to 05/15/2018						
0002	Base Year: Transition-In.						
0003	Base Year: Operations and Maintenance. Fixed-Price						
0004	Base Year: Operations and Maintenance. Cost						
	Base Year: Other Direct Costs (ODC)						
	Continued ... (Use Reverse and/or Attach Additional Sheets as Necessary)						
25. ACCOUNTING AND APPROPRIATION DATA						26. TOTAL AWARD AMOUNT (For Govt. Use Only)	
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA				<input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.			
<input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA				<input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.			
<input checked="" type="checkbox"/> 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN <u>3</u> COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED.				<input type="checkbox"/> 29. AWARD OF CONTRACT: _____ OFFER DATED _____. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
30b. NAME AND TITLE OF SIGNER (Type or print)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (Type or print)		31c. DATE SIGNED	
				ELVIE A. THOMPSON			

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0005	Base Year: Travel				
0006	Option Year 1: Operations and Maintenance. Fixed-Price (Option Line Item) Period of Performance: 05/16/2018 to 05/15/2019				
0007	Option Year 1: Operations and Maintenance. Cost (Option Line Item) Period of Performance: 05/16/2018 to 05/15/2019				
0008	Option Year 1: Other Direct Costs (ODC) (Option Line Item) Period of Performance: 05/16/2018 to 05/15/2019				
0009	Option Year 1: Travel (Option Line Item) Period of Performance: 05/16/2018 to 05/15/2019				
0010	Option Year 2: Operations and Maintenance. Fixed-Price (Option Line Item) Period of Performance: 05/16/2019 to 05/15/2020				
0011	Option Year 2: Operations and Maintenance. Cost (Option Line Item) Period of Performance: 05/16/2019 to 05/15/2020				
0012	Option Year 2: Other Direct Costs (ODC) Continued ...				

32a. QUANTITY IN COLUMN 21 HAS BEEN

☐ RECEIVED ☐ INSPECTED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE			32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
			32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
33. SHIP NUMBER	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT	37. CHECK NUMBER
<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL			<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY		
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT			42a. RECEIVED BY (<i>Print</i>)	
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42b. RECEIVED AT (<i>Location</i>)	
			42c. DATE REC'D (YY/MM/DD)	42d. TOTAL CONTAINERS

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	(Option Line Item) Period of Performance: 05/16/2019 to 05/15/2020				
0013	Option Year 2: Travel (Option Line Item) Period of Performance: 05/16/2019 to 05/15/2020				
0014	Option Year 3: Operations and Maintenance. Fixed-Price (Option Line Item) Period of Performance: 05/16/2020 to 05/15/2021				
0015	Option Year 3: Operations and Maintenance. Cost (Option Line Item) Period of Performance: 05/16/2020 to 05/15/2021				
0016	Option Year 3: Other Direct Costs (ODC) (Option Line Item) Period of Performance: 05/16/2020 to 05/15/2021				
0017	Option Year 3: Travel (Option Line Item) Period of Performance: 05/16/2020 to 05/15/2021				
0018	Option Year 4: Operations and Maintenance. Fixed-Price (Option Line Item) Period of Performance: 05/16/2021 to 05/15/2022				
0019	Option Year 4: Operations and Maintenance. Cost (Option Line Item) Period of Performance: 05/16/2021 to 05/15/2022				
0020	Option Year 4: Other Direct Costs (ODC) (Option Line Item) Period of Performance: 05/16/2021 to 05/15/2022				
0021	Option Year 4: Travel (Option Line Item) Period of Performance: 05/16/2021 to 05/15/2022				
0022	Option Year 5: Operations and Maintenance. Fixed-Price (Option Line Item) Period of Performance: 05/16/2022 to 05/15/2023				
0023	Option Year 5: Operations and Maintenance. Cost Continued ...				

CONTINUATION SHEET

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	(Option Line Item) Period of Performance: 05/16/2022 to 05/15/2023				
0024	Option Year 5: Other Direct Costs (ODC) (Option Line Item) Period of Performance: 05/16/2022 to 05/15/2023				
0025	Option Year 5: Travel (Option Line Item) Period of Performance: 05/16/2022 to 05/15/2023				
0026	Option Year 5: Transition-Out. (Option Line Item) Period of Performance: 05/16/2022 to 05/15/2023				

Description/Specifications Section C

HUD Enterprise & Architecture Transformation (HEAT) for Office of the Chief Information Officer (OCIO) STATEMENT OF OBJECTIVES (SOO)

I. Purpose

This requirement is to define the Department of Housing and Urban Development (HUD) goals and objectives for the HUD Enterprise & Architecture Transformation (HEAT) initiative for the coordination and provision of Information Technology (IT) services for End User Services (EUS), System Integrator (SI) services, and Cloud Services. It also includes appropriate coordination with the HEAT Data Center Service (DCS) provider.

II. Mission

HUD's mission may be found at the following HUD Website:

<http://portal.hud.gov/hudportal/HUD?src=/about/mission>

HUD Vision for Information Services and Technology:

All HUD customers will have modern information services and technologies that are secure, accessible, reliable, and cost effective; meet their needs; and exceed their expectations.

Through a series of strategic planning sessions, HUD's IT executives, practitioners, and stakeholders together identified four key goals for IT at HUD that were included in the HUD Information Technology Strategy FY 2013 - FY 2017 document which this acquisition shall support:

1. Enhance the quality, availability, and delivery of HUD information to citizens, employees, business partners, and government.
2. Promote an enterprise approach to information technology that will foster innovation and collaboration (while reducing redundancies as noted in Government Accountability Office (GAO) reports).
3. Achieve excellence in IT management practices.
4. Transform Office of Chief Information Officer (OCIO) to a culture of operational excellence that can achieve current and future Departmental goals.

III. Scope

1. Managed Services

Provide IT services to meet the objectives specified in this SOO which are based on the

following areas:

- Contract Phases: Transition-In, Operations and Maintenance, and Transition-Out
- Enterprise-wide Services, for integrating, coordinating, managing, and standardizing IT services
- Coordination with the Data Center Service provider
- Coordination with Application Developers
- End User Services, for End User Support
- Cloud Services
- Local Area Network (LAN) Services.

2. Service Locations

The managed enterprise-wide IT services to be acquired shall be made available to all of the HUD's current sites. The sites are classified into the following:

- Data Centers and Disaster Recovery data centers
- HUD Headquarters
- Regional HUD Offices
- HUD Field Office Sites, including US territories and international locations.

The sites that are within the scope of this contract are detailed in Exhibit A, HEAT Site Attributes. Support is needed at each HUD Site located in the United States, its territories, or in any international locations, regardless of size or geographic location. To support the sites listed in Exhibit A, it is anticipated that travel will be required to meet the requirements of this contract.

The contractor shall also be responsible for the coordination of data center services for data center sites that may be added during the course of this contract. Field Office locations may also change resulting in a change in service address.

3. Contract Phases

During the life of the contract there will be three distinct phases: Transition-In, Operations and Maintenance, and Transition-Out.

The Government's Objective is to obtain a solution based on industry best practices through an Industry Partner during all phases of this contract.

After the Transition-In phase, when it has been determined that the IT infrastructure is stable (i.e., SLA metrics have been met), the Contractor may initiate and implement modernization improvements (see Section V, Overarching Service Objectives) to IT services.

Contract Transition-In

The Contract Transition-In task (once approved by HUD) will take place over an 8 month calendar period, unless a shorter period is proposed by the Contractor and accepted by HUD. This task involves the transition of the existing end user service components, and the management of IT services from legacy vendors for all HUD locations specified in Exhibit A.

This includes all standard activities involved in taking over service delivery responsibility from the current service providers.

HUD has identified three critical success factors regarding transitions:

- Risk mitigation
- Continuity of Service
- Strict adherence to the post-award schedule.

Successful and timely execution of the Transition-In Phase is critical to HUD; key considerations include but are not limited to:

- Resourcing all activities with skilled personnel and managing third party vendors (specialized service providers, e.g., for applications, etc.).
- Active monitoring and control of transition issues, dependencies and alignment with the agreed-upon Transition Plan.
- Orderly handover coordination and comprehensive readiness testing for service commencement (Infrastructure and Application Management).
- When delays are unavoidable HUD will need a plan for how any impact(s) can be mitigated in order to maintain a realistic project schedule.

The transition-in phase shall require coordination efforts with HUD and the service providers. The overarching objective of this phase is a low risk and minimal impact (to end-users) transition during the establishment of services compliant with the objectives of this SOO. Transition-in will be considered complete after acceptance testing and approval by HUD through a multiphase Operational Readiness Review process. Each Operational Readiness Review is a go/no go HUD decision point where HUD allows the cutover of a specific service or application to a new contractor. The Contractor shall support HUD in the implementation of HUD's Risk Management Framework process (see Exhibit I) for the assessment and authorization of IT systems and applications. The HUD Chief Information Officer (CIO) provides the Authorization to Operate (ATO) for the systems and applications that are transitioned to a new operational location.

Support for Independent Verification and Validation (IV&V)

The Systems Integrator shall provide services as needed to support the IV&V Service provider to include:

- Assisting to obtain raw system performance data feeds to facilitate HUD OCIO IT Operations requirements or HUD Governance requirements.
 - Analysis of Service Level Agreements (SLAs)/performance.
 - Reporting analysis results to HUD.
 - Monitoring of Configuration Management/ Change Management/Development/Quality Assurance (QA) processes, procedures, plans.
 - Performing Security Support:
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- o Vulnerability Scanning Identification & Assessment
- o Reviewing Daily System, Network Security Logs.

Transition Phases of the SI and End User Service Delivery Contract(s)

For end user services, it's the Government's Objective to receive a seamless transition of end user devices, to consist of PCs and the associated peripheral equipment (monitors, docking stations, etc.), in addition to non-standard PC peripherals/accessories (projectors, assistive technology, etc.). A detailed list of end user devices in the HUD current baseline is provided in Exhibit C. End user cloud services (email, desktop office suites, and etc.) will be supported through the service desk and the SI cloud service function, and coordinated with the cloud service providers.

Contract Operations and Maintenance (O&M)

The Operations and Maintenance (O&M) phase consists of, after contract startup and transition activities have been completed, the on-going operations and maintenance of the End User and cloud environments, and the coordination and monitoring of the Data Center environment. In this phase, the service objectives as defined in Section V, Heat SI Objectives, will be used to guide performance and ensure compliance with the agreed upon requirements. Service Level Agreements (SLAs) will take effect and on-going performance monitoring will be required. As part of this phase, implementation of an established service management/delivery framework and its associated processes shall occur.

Contract Transition-Out

Provide transition phase-out support and various activities to transition support to HUD or a third-party service provider at the end of contract period as defined in the award.

For planning purposes, the Government anticipates a phase-out period of performance of one (1) year.

Ownership of software (SW) and/or cloud services, and any equipment or hardware procured on behalf of the government will be as specified in Section VI, 3.1.3 Asset Ownership.

It's the Government's intent to have full access of information and participate fully during the transition-out phase of this contract. If a different contractor is awarded a follow on contract for these requirements, full access shall be provided to the Government and the new contractor to perform discovery under the follow on contract.

The Government expects to have all warranty, licensing and renewal information and agreements transferred to the Government during this phase.

All infrastructure data (Configuration Management Database, Virtual Machines (VMs), VM templates, etc.) and applications are owned by HUD and shall be exportable in HUD required formats upon termination.

IV. Period and Place of Performance

Under this SOO, Data Center Service coordination and End User Services as outlined in this SOO shall be provided to the locations identified in Exhibit A, HEAT Site Attributes.

The period of performance for this contract will be 7 years. The start date will be the date of award.

V. Background

HUD's current Data Center and End User Services are provided using a multi-vendor concept. The current DCS consists of four data center sites (two of which are Disaster Recovery sites) that are not owned by the Government. The data centers within the infrastructure are owned by contractors who provide fully managed data center service and support capabilities that must continue to evolve to meet HUD's goals and objectives.

The current EUS consist of email, desktop services and provisioning of hardware and desktop software for office software tools and HUD applications access, plus full service desk support for HUD EU IT equipment, applications, vendor supplied tools, email, office tools and remote access via different technologies, such as wireless, cell, wired from remote locations, telework, etc.

See the attachments for HUD's Application Baseline (Exhibit B), current end user devices (Exhibit C), and for a description of the current HUD Environment (Exhibit E).

A highly optimized and reliable distributed data center environment and end user infrastructure are essential and strategic components to the successful delivery of business value and customer satisfaction. Changing business requirements and customer demands require a diverse set of skills and knowledge including industry-leading expertise in coordinating data center infrastructure, data center design, data center and cloud interaction, service desk support, network and end user security, mobile and wireless technologies, data center, cloud and end user management and transition planning, with a focus on translating business and strategic objectives into data center and end user requirements. The data center and end user infrastructure operations must work closely with the technology and business stakeholders to create capabilities that not only satisfy current needs, but also address future requirements for enhanced business and operational capabilities enabled by cloud based applications and functionality. HUD desires a tightly integrated solution to support data center, end-user, and cloud concepts to improve the quality of service at HUD.

VI. Performance Objectives

1. HEAT Acquisition Objectives

This section specifies the acquisition objectives for the HEAT initiative, which are to be supported by the SI:

- 1.1. Provide an intuitive one-stop solution to quickly and reliably deliver information for public access.
 - 1.2. Leverage web services to conduct business reliably and securely with customers and stakeholders.
 - 1.3. Provide standardized technologies enabling HUD employees to work collaboratively and share knowledge.
 - 1.4. Establish a standard for consolidated infrastructure to achieve interoperability and communication among operating divisions.
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- 1.5. Enable the unification and simplification of similar IT business processes and services within and across operating divisions.
- 1.6. Maximize the value of technology investments through enterprise-wide solutions and licensing.
- 1.7. Centralize IT services and operations.
- 1.8. Provide a secure and trusted IT environment ensuring confidentiality, integrity, cyber-security, and availability of IT resources, and availability consistent with HUD's cyber-security goals and posture.

2. Overarching Service Objectives

This section specifies the over-all objectives that are to be met by the SI in delivering IT services to fulfil the requirements of this SOO.

Increase the Level of Customer Satisfaction

- 2.1. Increase the current level of user satisfaction reported by both HUD management and its customers for the services delivered under the current contract to even higher levels through delivery of superior IT service.

Improve Performance

- 2.2. Deliver high availability, reliability, scalability, maintainability, and federally compliant security and practices that are verifiable and compliant with all federal requirements.
- 2.3. Provide continuous and scalable security services for a distributed organization - ensure that a security solution is deployed on the network and in the cloud environment of HUD's IT infrastructure.
- 2.4. Advance the capabilities, using industry best practices, of existing information and end user technology infrastructure and services.
- 2.5. Deploy technologies and tools that simplify end user management, end-to-end application performance management, root cause analysis and problem resolution.
- 2.6. Implement industry best practices for end user design and deployment methodologies that mitigate disruption to operations.

Optimize Cost

- 2.7. Maximize effective asset utilization and increase efficiency via standardization.
 - 2.8. Enhance business agility and cost management by ensuring a stable and scalable IT environment. A stable IT environment, in accordance with best practices, would ensure:
 - o Customer service level expectations are appropriately defined and managed.
-

- o Adequate capacity is available and optimally used to meet required performance needs.
- o IT services are available as required and controls are present to ensure customers experience only a minimum business impact in the event of a major disruption to normal operations and activities.
- o Operating costs are correctly identified and reported, and fairly charged back to HUD program offices.
- o Information assets are protected from unauthorized access disclosure or loss.
- o A suitable physical environment exists to protect IT service resources (people and equipment) from man-made and natural hazards.
- o Problems and incidents are resolved and appropriately investigated to prevent recurrence.
- o A record of IT components and configurations is maintained to facilitate sound change management.

Initiate and Implement Modernization Improvements

- 2.9. Improve service through the implementation of standard services for end user platforms, and for management/delivery framework and associated processes (e.g., ITIL 2011).
 - 2.10. Provide strategies and guidelines to transform the end user operations environment to industry best practices through integration, consolidation, virtualization, automation and convergence.
 - 2.11. Provide a flexible portfolio of end user infrastructure services based upon business and technical requirements. To ensure options are available to HUD decision makers over the long term infrastructure investment, support HUD with:
 - o Dynamic strategic infrastructure planning approaches that take into account the future uncertainties and risks, projected and actual, and provide real option evaluations.
 - o Strategic IT planning that prepares HUD for Technology evolution, Contingency events, Legislative/Regulatory changes and economic fluctuations.
 - 2.12. Decrease risk through the use of tested industry-standard technologies and intelligent design to secure the end user against attacks and malicious intrusions.
 - 2.13. Leverage FedRAMP cloud services:
 - o Leverage cloud services to enhance HUD IT operations and business processes when the benefits of scalability, rapid deployment and full transparency for managing operational costs can be realized.
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- o Enhance standardization, interoperability and application deployment processes with the adoption of cloud based development and testing services.
- o Provide flexible, efficient acquisition of compute services as needed.
- o Leverage standardized security risk management practices offered through FedRAMP to streamline the Federal assessment and authorization process.
- o Reduce the risk of technological obsolescence.

Provide Mobility

- 2.14. Achieve high portability and security for mobile computing and remote access.
- 2.15. Enable a truly mobile workforce that will be able to perform work requirements anytime from anywhere on any HUD approved device.

Meet Staff IT Needs and Accommodate Growth

- 2.16. Meet the IT needs of HUD's staff of approximately 12,000 employees and contractors located at 71 sites across the United States.
- 2.17. Accommodate a 10% increase in data traffic, transactions, and storage for each year, but be ready to address seasonal spikes.

Benefits to HUD's IT Infrastructure

Achieve the following benefits listed below based on deployment of a comprehensive IT infrastructure framework:

- 2.18. Robust and Reliable Service Availability based upon IT Infrastructure Library (ITIL) 2011 service design guidelines - Maximum uptime due to robustness and reliability of a high-speed, well-designed IT services.
- 2.19. Maximum Operating Flexibility - Operating across standards-based IT services allows for easy transition to changing business requirements and emerging technologies.
- 2.20. Seamless Interoperability - Employment of standards-based IT infrastructure allows for seamless operations and easier integration of applications across the infrastructure landscape.
- 2.21. Operational Simplification - Allows for streamlining IT operations and management through remote systems monitoring and restoration management; building and campus customer premise equipment will be operated unattended and restored through remote access by expert technicians distributed throughout the IT environment and service desk infrastructure support center system.

3. HEAT SI Objectives

The HEAT services are to provide the HUD Enterprise with distributed IT services that allow

HUD employees and contractors to perform the HUD mission. This section identifies the objectives that are to be fulfilled by implementing the management and system integration of IT services.

3.1 Enterprise-Wide Services

3.1.1 Reduced Environmental Impact

- 3.1.1.1. Leverage best practices that are aligned with the goals of the Federal Data Center Consolidation Initiative (FDCCI) and similar Laws, Policies, and Regulations (LPR), strive to reduce power consumption, maximize processing capabilities, promote environmental sustainability, and adhere to green IT initiatives (see Federal Electronics Challenge standards in Exhibit D, References).

3.1.2 Section 508 Compliance

- 3.1.2.1. Coordinate compliance or comply with Electronic and Information Technology Standards as specified with Section 508 of the Rehabilitation Act.

3.1.3 Asset Ownership

- 3.1.3.1. Software/Commercial Off-The-Shelf (COTS) License Management - Coordinate the acquisition, management, and support for software licenses (see Exhibit G) and maintenance agreements required for its system integrator/end user services solution, and any software licenses leased by HUD or that are provided for HUD's use as part of a service contract.

Note: License management to include HUD ownership of software/seats licenses for future software acquisitions, and optionally, hardware items.

- 3.1.3.2. Any software (SW) and/or cloud services procured on behalf of the government under this contract shall be owned by the Government, including SW and relevant data utilized by the SI to manage and document services provided to HUD.
- 3.1.3.3. All hardware procured under this contract shall be managed by the Contractor but owned by the Government. Government hardware already owned by the Government may be furnished to the Contractor for management/maintenance and utilization for performance of this contract.

3.1.4 Security Services

- 3.1.4.1. Provide enterprise security services and solution(s) that meet and comply with Federal Cyber-Security requirements specified in the Federal Information Security Management Act (FISMA), Office of Management and Budget (OMB) and Department of Homeland Security (DHS) Directives, National Institute of Standards and Technology (NIST) Standards and Guidelines standards (see Exhibit D, References).
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- 3.1.4.2. Coordinate all related security hardware and software license acquisition and management.
 - 3.1.4.3. Maintain and control a security program that meets all information, privacy, physical and personnel security control requirements for Moderate impact systems as prescribed in Federal Information Processing Standards Publications (FIPS) 199, FIPS 200 and NIST SP 800-53.
 - 3.1.4.4. Provide security governance and documentation consistent with Federal cyber-security requirements.
 - 3.1.4.5. Support the Department's implementation of the DHS Continuous Diagnostic and Mitigation program including implementation of government furnished automated sensors and tools.
 - 3.1.4.6. Support HUD's authentication requirements to prevent unauthorized access to HUD IT assets.
 - 3.1.4.7. Assist HUD in ensuring that Cloud Service Providers operate consistent with FedRAMP requirements and shall ensure prompt notification to the General Services Administration if intervention is required.
 - 3.1.4.8. Provide a security operations center (SOC) to monitor, assess, and secure the components of the IT infrastructure (applications, servers, LANs/WANs, computing devices, mobile devices, and other endpoints).
 - o During non-core hours, the service desk shall roll over to the SOC to provide minimum service desk support. Provide Tier 1 support for all, except for executives and VIPs; executives and VIPs shall receive full support (see Section V, Global Services, Service Desk Support Services for the service desk structure). Executives and VIPs will be identified upon contract award.
 - 3.1.4.9. Perform Security Incident Response Management (SIRM): The objective of SIRM is to monitor and manage HUD's response to information security incidents (as defined by NIST), coordinating the activities of other HUD IT providers as well as interacting directly with the US Computer Emergency Readiness Team (US-CERT) on behalf of HUD; note that all SIRM services shall begin within 30 calendar days after the contract award and shall support incidents across the infrastructure including legacy portions managed under non-HEAT contracts.
 - o Historical data: HUD experiences 300-400 information security incidents per year; policy requires that all are reported to US-CERT however less than 5 per year require US-CERT intervention.
 - o Specific sub-objectives include:
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- Directly interacting with US-CERT on behalf of HUD during and after a computer security event
- Managing the creation, tracking, lifecycle, and resolution of the corresponding Incident Ticketing System
- Generating and submitting a comprehensive postmortem report on all events with recommendations to prevent recurrence as appropriate
- Following the incident processes and procedures recommended by NIST
- Provisioning a fully qualified incident response team that meets the guidelines in NIST Special Publication 800-61, Computer Security Incident Handling Guide; this team will act as HUD's Computer Incident Response Team (HUD-CIRT)
- Review occasional DHS security reports including those classified up to and including Top Secret / Secure Compartmentalized Information (TS/SCI) (classified report review not to exceed 40 hours per year).

3.1.5 Disaster Recovery Services

- 3.1.5.1. Work with the Disaster Recovery Service provider to maintain the Disaster Recovery (DR) Data Center for Disaster Recovery services.
- 3.1.5.2. Disaster Recovery must be tested at least once a year with the full participation of the application developers, HUD Office of the Inspector General (OIG), and HUD OCIO.
- 3.1.5.3. Respond to disasters or significant events impacting IT services based on parameters defined in the Disaster Recovery Plan (DRP).

3.1.6 Service Catalog

- 3.1.6.1. In accordance with ITIL 2011, build, provide, and maintain a Service Catalog (to include any HUD existing IT Service catalog), which specifies a list of all IT services provided for the HEAT Infrastructure. The Service Catalog shall be accessible to HUD employees and contractors.
- 3.1.6.2. Standardize the service catalog to support test, development, and production for HUD applications across the DC, end user, and cloud.
- 3.1.6.3. Standardize the service catalog to support OSs, VMs, DBs, programming languages, web services, and data architecture.

3.1.7 Service Desk Support Services

- 3.1.7.1. Provide a multi-channeled service desk to identify/track/resolve issues with information technology services.
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- 3.1.7.2. Provide End User Service Desk services to cover all vendors and cloud vendors, in support of HUD applications and web browser based applications, utilized by end users at HUD.
 - 3.1.7.3. Provide HUD access to a service desk ticketing system available to report, update and check status of service incidents.
 - 3.1.7.4. Provide multi-channeled automatic alerting based upon the levels of severity to Support Staff identified by HUD in the event of service failure or degraded service. Severity levels and notifications shall be mutually agreed upon by the Contractor and HUD.
 - 3.1.7.5. Provide a service desk solution to support service requests from external end users (see Exhibit F for HUD's baseline service request volume).
 - 3.1.7.6. Implement a service desk structure that provides for, at a minimum, a three-tiered support system:
 - o Tier 1, level 1 or front-end support for providing basic support and troubleshooting reported problems.
 - o Tier 2, level 2 support for performing advanced technical trouble shooting and analysis methods to assist Tier 1 personnel.
 - o Tier 3, level 3 or back-end support for handling the most difficult or advanced problems to assist Tier 1 and Tier 2 personnel.
 - 3.1.7.7. Provide a service dashboard to identify the availability and performance of critical resources (applications, systems, and network/WAN) as specified by HUD. Perform monitoring of service level performance, resource utilization, etc. via the dashboard to convey awareness of the IT environment and inform HUD of any problems.
 - 3.1.7.8. Provide for asset management for both hardware and software, include asset tracking (inventory management), assets service history (lists of tickets opened on the asset), purchasing order tracking, and software license tracking for all IT (see section 2.6.3.1.3 Asset Ownership).
 - o For software asset management, implement an ITIL 2011 compliant solution to ensure an up to date and accurate inventory of all purchased software licenses is maintained for data center and end user services.
 - o Hardware asset management, to include GFE and non-GFE (see Exhibit C).
 - o Solution shall contain all assets within the environment; however, each vendor (Data Center, SI/EU) is responsible for their data.
 - 3.1.7.9. Provide remote desktop support.
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- 3.1.7.10. Be staffed during core hours (7:00 AM - 8:00 PM EDT, Monday through Friday, excluding Federal holidays), and accommodate offices outside of the continental US (such as Guam) with personnel reachable at all times.
- 3.1.7.11. In order to support HUD 24x7x365, the Service Desk shall be available to accept, but not resolve tickets during non-core hours for End User support, with the ability to escalate and/or augment staff as needed.
- 3.1.7.12. Provide additional service desk personnel as requested by HUD for short term activities.

3.1.8 Enterprise Identity, Credential and Access Management (ICAM) Support Services

- 3.1.8.1. Protect HUD's sensitive data in accordance with Federal guidelines unless as indicated by HUD. This data falls into two categories: Personally identifiable Information (PII) and Sensitive data with regard to procurements and other data related acquisitions.
- 3.1.8.2. Support the ICAM program:
 - o To enhance customer service to users of HUD's IT systems, increase security, improve interoperability, eliminate redundancy and increase protection of PII.
 - o Provide HUD with automated identity credential and access management processes planned, designed, implemented, and maintained to support automation, streamlining and full life cycle management of all digital user accounts.
 - o Ensure HUD complies with Federal Identity Credential and Access Management (FICAM) Roadmap and Implementation Guidance, FIPS 199, and Homeland Security Presidential Directive 12 (HSPD-12) (See Exhibit D).

3.1.9 E-Discovery Solution

- 3.1.9.1. Support the current transferrable automated solution for storage, retrieval, and search of all Electronically Stored Information (ESI) for current and HUDGONE (past) employees, to include, but not be limited to, primary and archived e-mail, file storage, (e.g., network drives, shared drives, etc.), instant messages, and SharePoint data. In addition, propose and implement enhancements that provide specified functionality not currently available.
 - 3.1.9.2. The transferrable automated solution shall include a comprehensive solution to:
 - o Administer and maintain the SharePoint-based Office of General Council (OGC) E-Discovery Management site.
 - o Retrieve and store ESI subject to a litigation hold.
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- o Perform case-specific (keyword) searches on ESI necessary for litigation purposes.
 - o Provide electronic review for responsiveness and privilege.
 - o Provide electronic redaction of responsive documents for privilege.
 - o Provide for production of responsive documents.
- 3.1.9.3. Modernize an E-Discovery solution that is a government owned Contractor operated system which:
- o Transfer as GFE all software licenses to HUD.
 - o Incorporates the existing general IT infrastructure currently installed at HUD in the same manner as all other applications at HUD.
 - o Utilizes, at least initially, the current EMC hardware and Kazeon software solution.

3.1.10 Remote Access Gateway Services

- 3.1.10.1. Provide and/or coordinate the implementation, support, and management for remote access services (e.g., dial, mobile, Internet Protocol (IP)/VPN)) to enable users using mobile devices to connect to resources in the HUD environment for HUD employees and contractors.
- 3.1.10.2. Provide a secure remote access solution to support up to 5000 concurrent remote users with failover.
- 3.1.10.3. Coordinate a site to site VPN capability for HUD business partner connections and cloud for secure services compliant with FIPS 140-2.

3.1.11 Transition Services

- 3.1.11.1. Transition In - Provide transition-in of the existing end user service components from legacy vendors for all HUD locations specified in Exhibit A, and detailed in Section II, Contract Transition-In.
- 3.1.11.2. Transition Out - Provide transition phase-out support and various activities to transition support to HUD or a third-party service provider at the end of the contract period as defined in the award and detailed in Section II, Contract Transition-Out.

3.1.12 Training Services

- 3.1.12.1. Provide training to introduce Government customers, programs, and HUD staff to the tools, methodologies, and technical processes, to consist of, but not be limited to:
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- o End-user orientation and communication on services and service desk support and escalation procedures for all contractor provided systems/applications/processes.
- o On-going and ad hoc training for new and existing services and applications, and for contractor supplied tools used for the transition and oversight of data center and end user services.
- o Automated tool solutions for scheduling and reporting (configuration management, release management, change management, etc.).
- o E-Discovery system, to include all user functionality for legal discovery.
- o Web-accessible multi-media based training sessions for email, etc.
- o HUD-standard assistive technologies, via classroom training, individual training, etc.

3.1.13 Project Management, Planning, and Reporting

- 3.1.13.1. All HEAT projects, including all information systems acquired, developed, enhanced, or maintained shall follow the policy, procedures, standards, and guidelines set forth within HUD's IT Management Framework using the PPM Life Cycle, PPM V2.0, located at HUD's PPM Life Cycle Website:
http://portal.hud.gov/hudportal/HUD?src=/program_offices/cio/ppm
 - 3.1.13.2. Provide a primary and secondary point of contact (liaison) to HUD. The primary point of contact shall keep HUD informed of any potential issues and recommend mitigation strategies.
 - 3.1.13.3. Perform the following, but not inclusive, project management support functions during the Transition-In, O&M, and Transition-Out Phases:
 - o Manage all Contractor SI servicing activities.
 - o Provide and maintain a project schedule, and provide schedule inputs to the HUD CIO and other stakeholders as directed by the OCIO.
 - o Maintain Action Items, Risk Register, Resolutions, Risk Mitigation and contingency plans.
 - o Develop, update and maintain Lifecycle Servicing plans and Transition plans.
 - o Provide regular status reports to HUD on the progress of the activities associated with Transition and Lifecycle Management phases as specified by HUD.
 - o Provide staff during core hours and non-core hours as specified in Section V, Service Desk Support Services, throughout the Transition Phases.
 - 3.1.13.4. Provide all required personnel, management oversight, tools, processes, and other necessary resources to support fully this contract. Coordination between HUD,
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HUD 3rd party vendors, and other government agencies is necessary to meet the Government's objectives.

3.1.13.5. Develop and implement the following services based upon processes that are consistent with ITIL 2011 best practices: Configuration Management, Release Management, and Change Management. Implement governance models that automate these services.

- o Consolidate and report to HUD the output for these services, from IT service providers (cloud, Data Center, Transport, etc.).

3.1.13.6. Establish and maintain a complete Quality Control Program to ensure services are performed in accordance with this contract. Develop and implement procedures to identify, prevent, and ensure non reoccurrence of defective services.

3.1.14 Administration & Management Services

Services for administration and management to include the following:

3.1.14.1. Perform capacity planning and management, and performance monitoring across all SI environments (data center, end user, cloud, etc.); configure, operate, and maintain models for capacity planning and management, system performance, and system reliability covering the entire end-to-end IT infrastructure, in support of systems validation, system integration, operational management, and technology refreshment recommendations.

3.1.14.2. Manage end user accessibility, storage for common and shared data stores (e.g., SharePoint, network drives, Active Directory, etc.), email, office tools, and end user tools.

3.1.14.3. Ensure compliance and readiness for Internet Protocol version 6 (IPv6):

- o Provide support for IPv6 within all cloud environments

- o Purchase equipment that is only IPv6 ready.

3.1.14.4. Access and recommend, and implement upon approval, the active directory structure to eliminate issues with customers wishing to share resources across domains.

3.1.14.5. Perform refresh rates as agreed upon with HUD for IT systems, software, and end user devices, such as PCs and PC peripherals (mice/keyboards/monitors), non-standard desktop peripherals/accessories (e.g. scanners), network systems (e.g. switches), OSs, desktop software, etc. (see list in Exhibit C).

3.1.14.6. Provide and implement software and hardware maintenance and upgrades and patching.

- 3.1.14.7. Perform maintenance support and maintenance response time analysis to improve service delivery times.
 - 3.1.14.8. Submit to HUD status reports for SLA compliance and performance, burn rates, end user issues and the actions performed to resolve, etc.
 - 3.1.14.9. Support Continuity of Operations (COOP) sites with end user assets, e.g., connectivity, LAN, desktops, VTC, etc.
 - 3.1.14.10. Installation/Move/Add/Change (IMAC) - Perform IMAC of every end user asset in the environment; includes IMAC projects, as well as all individual IMAC requests. IMAC projects are only associated with an entire HUD office migration to another location.
 - o Per historical data, the Government anticipates a maximum of 10,000 IMACs should be performed per year.
 - 3.1.14.11. Provide depot service for mobile devices (laptops/tablets/smartphones), with advance replacement for all non-headquarters (HQ) / non-large site users and onsite response for HQ and other large sites. Includes coordination with HUD's mobile service vendor(s) for tablets and smartphones.
 - 3.1.14.12. Provide an emergency provision of IT end user supplies or services within proposed acceptable SLAs.
 - 3.1.14.13. Provide a global knowledge base - repository for engineering and design documentation for technical and operating manuals for HEAT systems, software client user guides, service upgrades, enhancements, new technology adoption, maintenance logs, etc.
 - 3.1.14.14. Support relocations of the HUD IT infrastructure in HUD offices:
 - o Support the preparation of the HUD equipment for shipping to relocated offices.
 - o When equipment is replaced by modernized systems, ensure that the HUD PCs and peripherals/accessories are dispositioned in accordance with the HUD IT Security Policy.
 - o Perform site surveys for installation readiness.
 - o Coordinate the schedule for relocation projects with the HUD user in order to minimize disruption of service.
 - o Provide a solution to shorten the process for office relocations/renovations.
 - 3.1.14.15. Support HUD's Audit process.
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3.1.15 System Integration and Testing Service

- 3.1.15.1. Coordinate, manage, monitor, report, and support integration and test for HUD's business applications.
- 3.1.15.2. Standardize test and the development for HUD applications across the DC, end user, and cloud.
- 3.1.15.3. Standardize OSs, VMs, DBs, programming languages, web services, and data architecture.
- 3.1.15.4. Develop, update and/or review system/equipment inspection and acceptance test plans, test reports, procedures, and specifications; and, provide technical support to HUD and its contractors during technical reviews, test readiness reviews, and technical meetings.
- 3.1.15.5. Provision, manage, and operate the HUD Test Center and Laboratory at HUD's Headquarters.

3.2 Data Center Services

The SI will coordinate the Data Center Service provider to oversee, monitor, and ensure that data center services are provided in accordance with HUD requirements.

3.2.1 Data Center Core Services

- 3.2.1.1. Work with the Data Center Service Provider to coordinate Data Center services to include, interfacing with the end user, cloud service providers, and the Transport service provider.
 - 3.2.1.2. Application and SI support hardware procured on behalf of the Government shall reside in the Data Center.
 - 3.2.1.3. Coordinate services with the Data Center Service Provider to include, but not be limited to:
 - o Management of Traditional Hosting Services
 - o Application System Services Production Environment
 - Application Delivery Controller (ADC): Ensure that an enterprise-grade application delivery controller (ADC) and load balancer (LB) technologies, or best practices are provided to improve HUD's application software performance
 - o Storage, Archiving, Backup, and Recovery Services
 - o Computer Services
 - Mainframe
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- Virtualized Systems
- Requirements
- Architecture
- Cloud Interface

- o Database Management Services
- o Middleware Services
- o Data Center Network Services
- o Disaster Recovery Services.

3.2.2 Application Performance Management (APM)

3.2.2.1. Coordinate and aggregate performance of HUD's legacy and COTS applications as reported by any IT source (service providers for cloud, Data Center, Transport, etc.), to consist of, at a minimum:

- o End-user experience monitoring
- o Runtime application architecture discovery modeling and display
- o User-defined transaction profiling
- o Component deep-dive monitoring in application context
- o Analytics.

3.2.2.1. Coordinate production, test, and development environments so that SLA metrics and outcome measures are captured and reported accordingly and the performance of end-user transactions are linked to business outcomes.

3.3 End User Services

3.3.1 End User Core Services

- 3.3.1.1. Manage and coordinate all end user devices, end user device data backup, including BYOD.
- 3.3.1.2. Manage and coordinate webcasts, dependent upon the provisions provided by the Transport contract.
- 3.3.1.3. Manage and coordinate existing VoIP.

3.3.2 End User Devices

The contractor shall comply with the OMB policy M-16-02 to acquire laptops and desktops for this contract. In accordance with M-16-02, the acquisition of laptops and desktops for federal agencies shall be obtained through one of the three existing government-wide acquisition

vehicles:

- NASA Solutions for Enterprise-Wide Procurement (SEWP)
- General Services Administration (GSA) IT Schedule 70, Special Item Number 132-8 (Purchase of Hardware) and 132-12 (Maintenance and Repair Parts/Service for Hardware)
- Department of Health and Human Services (HHS), National Institutes of Health (NIH), NITAAC Chief Information Officer-Commodities and Solutions (CIO-CS)

The contractor shall also comply with M-16-02 for any future guidance for End User computing devices, such as for acquiring tablets, computing based upon a virtual infrastructure, etc.

3.3.2.1. Computing Device Solution - provide the following devices based upon the user category, and for an initial maximum of 12,000 end users:

- o Lightweight laptops: 93%
 - Standard User
 - Executives
 - Highly Mobile
- o Ruggedized Laptop: 1%
 - Inspectors
- o High-performance Laptop: 6%
 - Technical Users
- o Training - provide a cost effective solution based upon desktops or Virtual Desktop Infrastructure (VDI) (see Exhibit C for training rooms and workstation requirements)
- o The above numbers are estimates based upon the current HUD end user population, and may vary by +/-10%.

3.3.2.2. After the environment has been stabilized (Transition-in phase is complete as specified in Section III, Contract Phases), solutions for end user workstations other than laptops may be provided, such as a VDI or desktop as a service solution (DaaS).

3.3.2.3. Computing Device Solution - provide:

- o Installation and troubleshooting for PCs/tablet/smartphones HW/SW.
- o PC connectivity support for cables, connectors, and troubleshoot.

3.3.2.4. Computing Device Solution - for users operating PCs, provide:

- o Reinstallation support for directly installed software.
 - o A range of standard browsers (Internet Explorer, Chrome, Firefox, etc.).
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3.3.2.5. Effective Workspaces:

- o Provide for all users full docking stations and the associated peripherals, and for the installation and troubleshooting of these devices:
 - Monitors (22" minimum), docking station (must have 3x USB2 min), laptop/tablet (with 2 chargers).
 - For every computer, keyboard, mouse, headphone, and web cameras for all PC devices. See Exhibit C for a list of current PC requirements.
- o Dual monitors in the Homeownership Centers (HOCs) and other locations
- o Mail metering machine
- o ROM Update Utility (RUU)/ Personal Identity Verification (PIV) equipment
- o Admin phone/security system workstations
- o DVD capability for workstations/laptops.

3.3.2.6. Smartphones - provide and coordinate support for the work force with the capability to use smartphones based upon HUD's Federal Strategic Sourcing Initiative (FSSI) wireless contract.

3.3.2.7. Satellite phones - coordinate support for the work force with the capability to use satellite phones based upon HUD's FSSI wireless contract.

3.3.2.8. Bring-Your-Own-Device (BYOD) - Support a BYOD approach for mobile devices (smartphones and tablets) utilizing HUD's provided Mobile Device Management (MDM) solution.

3.3.2.9. Device Standardization - propose solutions to standardize end user devices (PCs, tablets, and smartphones); see the end user list in Exhibit C.

3.3.2.10. Workstation Peripherals/Accessories - purchase/refresh/support/install/troubleshoot the following peripherals when directed by the government:

- o Scanners - Low speed/high speed options should be provided for varying uses
 - o Digital Cameras/Video Cameras (production not personal) - Multiple levels of models should be provided for varying uses
 - o TVs
 - o Projectors
 - Light weight for travel purposes
 - Stationary for conference rooms
 - o Link to room audio systems
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- o Large Scale Plotters
 - o Disc Media Duplicator
 - o Label Maker
 - o E-Discovery Tools
 - o Video Teleconference (VTC).
- 3.3.2.11. Mobile Devices - Provide the ability of all mobile devices (cell, etc.) to access data and applications stored in future Data Centers in a future phase.
- 3.3.2.12. Integration of HUD owned Devices - integrate into the environment, and provide support for the following current HUD-owned devices:
- o Tablets = 500
 - o Smartphones = 1180
 - o Mobile Hotspot = 450
 - o Other = 10.

Note: The Federal Strategic Sourcing Initiative (FSSI) Wireless contract will impact how these devices are coordinated and managed.

- 3.3.2.13. User Owned Devices - only provide limited Tier 1 support for gaining connectivity to HUD's environment.

3.3.3 End User Device Product Catalog

HUD's business model for end user services is to maintain a catalog of end user devices for workstations, peripherals, and accessories. Through this catalog the individual departments at HUD may purchase these items after the initial devices have been provided as a part of the contract. The objectives for the end user device product catalog consist of:

- 3.3.3.1. Build a catalog to specify laptops and workstation peripherals/accessories/consumables (including toner, ink, etc.) to include all devices listed in Section V, End User Devices, and provide access to approved end users to order these devices/consumables. The catalog shall be reviewed for update with HUD every 6 months.

3.3.4 End User Shared Devices

- 3.3.4.1. Solution for EU shared devices to include the following tasks:
- o Support for the utilization of Audio/Video (A/V) equipment.
 - o Coordinate maintenance for network printers and Multi-function Devices (MFDs).
 - o Provide network printing in the range of from 700 to 800 printers distributed throughout all HUD sites.
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- o Support event presentation configuration and provide accessories (wireless keyboards, wireless mouse, VTC setup and monitoring).
- o Provide loaner equipment for rapid deployment.
 - Disaster Response - fully mobile package including laptop, hotspot, printer (currently 50 devices).
 - International Travel - smartphones with international data and voice plans for approved users.
- o Provide loaner laptops (lightweight laptops, tablets, or similar devices) with wireless access.
- o Provide specialized hardware, such as graphic stations, and also the capability for any new hardware to be easily added either as needed or annually.
- o Provide a robust printing solution that provides automatic print driver installation when a network printer is installed by an end user, leverages IP printing and eliminates the need for print servers.
- o Support mainframe printing to HUD sites.

3.3.5 Video Teleconference (VTC) Service

- 3.3.5.1. Maintain and coordinate Video Teleconference Service at all HUD Regional, Field and HQ sites, excluding the HUD Data Center (see Exhibit A, HEAT Site Attributes).
 - 3.3.5.2. Monitor the bandwidth to support Video Teleconference Service.
 - 3.3.5.3. Maintain and coordinate the following VTC service capabilities:
 - o Connectivity of HUD's external partners and HUD defined invitees.
 - o Connectivity via HUD's **Multiprotocol Label Switching** (MPLS) Network, Internet or **Public Switched Telephone Network** (PSTN).
 - o On-demand and reservation-based video teleconferencing.
 - o Two way video, one way video with interactive voice, and/or the instant sharing of various types of documents/data files among VTC participants as an adjunct to the video teleconferencing session.
 - o Document sharing (data conferencing) which enables conference participants to interactively view, edit, and share or transfer data files and documents.
 - o Audio conference add-on capability to support non-video conference participants in a VTC call.
 - o Different modes of VTC operations:
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- Dial Out mode: Centralized arrangements where the conference bridge operator initiates a call and dials each participant at least 15 minutes prior to the conference start time.
 - Meet Me (Dial In) mode: Each participant is responsible for individually initiating a call and dialing into the conference bridge.
 - Mixed Dial mode: A combination or mix of both dial out and meet me (dial in) callers.
- o During a multipoint conference, the addition of a party to, or the deletion of a party from, the conference will be indicated by a tone or by a verbal or visual announcement.
- o Multipoint video conference capabilities:
- Voice Activation. The video signal transmitted to all VTC call locations is automatically switched by voice activation.
 - Continuous Presence. Multiple VTC locations may be viewed simultaneously on the same video screen.
 - Chairperson Control. The chairperson, in control of the VTC, sends his or her own video or selects a return video from one of the participating locations to be sent to all participating locations. The chairperson has the capability of transferring control of the video teleconference to another presenter at his or her location.
 - Lecture Control (Broadcast Video with Audio Return Only). The video from the lecturer's location is transmitted to all VTC participants. Audio, but no video, is returned to the lecturer's location from all other participating locations. The lecturer can select one or all of the audio signals for transmission to all participants.
- o Reservation system capabilities:
- Schedule a multi-point or point-to-point VTC within 30 minutes after the advance reservation request, and to schedule a VTC up to one year in advance by voice, fax, or electronic means.
 - VTC users can cancel a video teleconference prior to the scheduled start time of the video teleconference.
 - Based on availability of bridging capacity and required network functions, request a delay in the scheduled termination time of a VTC, which is already in progress, is granted if the request is made at least 20 minutes before the scheduled terminating time of the VTC.
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- Ability for VTC authorized users to schedule one or more video teleconferences by time and day of week either as a single event or recurring event on a daily, weekly, monthly or other periodic basis.
- Allows users with operating at different (disparate) data rates/speeds to connect and conference at their preferred speed.
- Ability to add participants or join a conference.
- o Ability for VTC users to request operator assistance to resolve technical issues during a video conference.

3.3.6 Webcasting Services

- 3.3.6.1. Provide the capability for Webcasts: distributed live and on-demand.

3.3.7 Networking and Communication

- 3.3.7.1. Coordinates network routing and service tables, router configurations, firewalls, IP addresses and related services.
- 3.3.7.2. Provides and manages Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP), Active Directory (AD), etc.
- 3.3.7.3. Operate and maintain HUD's MDM solution to allow access to HUD's resources, data, and applications via mobile devices acquired through the FSSI Wireless Contract and via BYODs. The solution shall include:
 - o Problem escalation/resolution support:
 - For a maximum of 200 users identified as VIPs and Executives, 24x7x365. Executives and VIPs will be identified upon contract award.
 - For all other users, during core hours and with a skeleton crew during non-core hours.
 - o Protection of HUD data against unauthorized access.
- 3.3.7.4. Provide a solution that removes the following from local networks:
 - o File servers
 - o Domain controllers
 - o Print servers (printers themselves would remain).
- 3.3.7.5. Coordinate connectivity to the HUD OIG network, connectivity to **Federal Emergency Management Agency (FEMA)**, connectivity to GSA, and other possible agencies using either switches or firewalls.

3.4 Cloud Services

3.4.1 Implement and manage activities for cloud services:

- o Provide the cloud environment services to host/provide the applications or services. For example, this could entail the license for the software in a Software-as-a-Service (SaaS) scenario, the provision of virtual machine and/or cloud storage hosting services in an Infrastructure-as-a-Service (IaaS) situation, or providing a computing platform for the creation of software in a Platform-as-a-Service (PaaS) cloud computing model.
- o Execute the migration of applications or services to the cloud.
- o Based on the HUD Cloud Strategy, implement the execution of a multi-step roadmap of cloud migrations for a suite of applications or services - which may also include providing the various cloud hosting services required.
- o Provide architecture, management and operation of HUD's existing Azure environment.
- o Provide architecture, migration, management and operation of HUD's Amazon Web Services (AWS) environment.
- o HUD will be the root account holder for any new cloud services procured by the SI.

The two main drivers of the Cloud Migration effort are the increasing benefits and mandates for cloud migration and data center consolidation.

3.4.2 FedRAMP Cloud Certification

- 3.4.2.1. Ensure that all cloud services are FedRAMP certified.

3.4.3 Cloud Services Management

- 3.4.3.1. Perform management of Cloud applications in compliance with the practices, policies, and standards that HUD has in place for any application. Project management, governance of the systems life cycle, and ITIL functions shall apply to Cloud applications.
- 3.4.3.2. The proposed services shall support desired outcomes, including:
 - o Successful and complete transition of specified applications, solutions, and services to the cloud.
 - o Consolidated and simplified application and service management and monitoring in the cloud to support cost-effective, secure, and agile IT management.
- 3.4.3.3. The following requirements are relevant to Cloud applications, but not limited to:

- o Data redundancy must be maintained for backup/restore/DR/legal and Archival requirements.
- o Data backup and DR may require some data, or all, being copied from the Cloud to a physical HUD Data Center for backup, other application utilization, FOIA, legal retention, data warehousing and data mart utilization, and other archival or Business Intelligence and research needs.
- o High availability services for HUD business applications requiring high availability must be available from any cloud provider.
- o Server availability for DR in the Cloud should utilize Cloud vendor DR sites with cloned servers together with duplicated storage for DR purposes, and based on DR needs for each application. The data will need to be in place in the DR site, updated at intervals determined by HUD's DR requirements by application.
 - For example, the servers may be allocated and configured but not running until such time as they are needed due to a Disaster.
- o Monitor and access WAN connections to the Cloud have the same throughput as required for existing applications with regard to response time requirements. This is to reduce latency as an issue for moving applications to the Cloud.
- o Apply the HUD security requirements under a FedRAMP approved Cloud solution.
- o Security access methods at HUD shall be consistent with Federal requirements.

3.4.4 Cloud Migration Services

- 3.4.4.1. Work with the HUD applications providers to migrate applications to the cloud.
 - 3.4.4.2. Selection of HUD applications that are not already in the Cloud is based on many factors, including but not limited to:
 - o Ability to migrate to the cloud based on technical and cost feasibility.
 - o Non-shared applications, since complex applications and application interactions or many interfaces may not be suitable for the Cloud.
 - o Applications which rely on batch processing rather than transaction processing with real-time or near real-time processing requirements. This is based on latency requirements which may or may not be possible in the Cloud or in a hybrid environment of Cloud and Data Center integrated applications.
 - o Where Software as a Service can replace HUD Data Center applications.
 - o The HUD Development and Testing environment may be moved to the Cloud to encourage standardization on a HUD approved list of
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tools/databases/OS's/supporting-software, and to enable Cloud elasticity for when development or testing is required or not required.

- 3.4.4.1. Provide separate cloud environments for development, test, staging/user acceptance test (UAT), and production purposes to support the complete systems lifecycle.
- 3.4.4.2. Provide post-deployment cloud support services.
- 3.4.4.3. Provide migration/release management status including milestones and support or implement specified migration/release testing plans and related rollback capabilities.

3.5 LAN Services

- 3.5.1. Own/operate/maintain the complete LAN hardware solution (e.g. switches, etc.) at all service locations, other than Data Center facilities.
- 3.5.2. Provide for LAN network management:
 - o Perform network monitoring to detect LAN network problems, and provide HUD easy access to network monitoring tools.
 - o Measure bandwidth usage for the LAN to provide bandwidth measurement metrics.

VII. Operating Constraints

Perform all work under this contract within the following constraints:

- Abide by all applicable Federal laws, regulations, policies and procedures as they apply to HUD or the work to be performed (See Exhibit D, References, for a detailed list of standards, regulations and policies).
- Conform to HUD Enterprise Architecture Standards and all HUD governing documents associated with the HEAT infrastructure as standards evolve during the period of performance.
- Comply with M-16-02, OMB Memorandum for Category Management Policy 15-1: Improving the Acquisition and Management of Common Information Technology: Laptops and Desktops.
- Coordinate with 3rd party vendors, as required, to meet the objectives as identified in this contract.
- Use only the HUD Data Centers, primary and Disaster Recovery (DR), for IT services.

VIII. Deliverables

Provide the deliverables specified in Exhibit H.

IX. Service Level Performance Metrics

The Contractor shall propose Service Level Performance Metrics that are based on their proposed solution and satisfy all Federal Government IT standards and requirements and that meet or exceed industry standards in the areas of Customer Satisfaction, IT availability and Reliability, Security, Modernization (including technical refresh to the n-1 standard), Configuration Management, and Program Management Effectiveness.

Exhibit A HEAT Site Attributes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
Anchorage Field Office	3000 C Street Suite 401 Anchorage, AK 99503	907-677	Anchorage	AK	Field Office	Yes
Birmingham Field Office	950 22nd St North Suite 900 Birmingham, AL 35203-5301	205-731	Birmingham	AL	Field Office	Yes
Little Rock Field Office	425 West Capitol Avenue Suite 1000 Little Rock AR 72201-3488	501-918	Little Rock	AR	Field Office	Yes
Phoenix Field Office	One N. Central Avenue Suite 600 Phoenix AZ 85004	602-379	Phoenix	AZ	Field Office	Yes
San Francisco Regional Office	One Sansome Street, Suite 1200 San Francisco, CA 94104	415-489	San Francisco	CA	Regional Office	Yes
Los Angeles Field Office	611 W. Sixth Street Suite 801 Los Angeles CA 90017	213-894	Los Angeles	CA	Field Office	Yes
Santa Ana Field Office	Santa Ana Federal Building 34 Civic Center Plaza Room 7015 Santa Ana CA 92701-4003	714-796	Santa Ana	CA	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
Denver Regional Office	1670 Broadway 25th Floor Denver CO 80202	303-672	Denver	CO	Regional Office	Yes
Hartford Field Office	One Corporate Center 20 Church Street 10th Floor Hartford CT 06103-3220	860-240	Hartford	CT	Field Office	Yes
Washington DC Headquarters	L'Enfant Plaza: 470/490 L'Enfant Plaza, SW, Washington, DC 20024	Most likely NPA/NN X	Washington	DC	HQ	Yes
Washington DC Headquarters	The Portals: 1250 Maryland Ave SW, Washington, DC 20024	Most likely NPA/NN X 202-203	Washington	DC	HQ	Yes
Washington DC Headquarters	Washington Office Center: 409 3 rd Street, SW, Washington, DC 20024	Most likely NPA/NN X 202-203	Washington	DC	HQ	Yes
Washington DC Headquarters	Weaver Bldg.: 451 7th Street SW, Washington, DC 20410	Most likely NPA/NN X 202-203	Washington	DC	HQ	Yes
Washington DC Headquarters	Potomac Center: 550 12th Street SW, Washington, DC 20024	Most likely NPA/NN X 202-203	Washington	DC	HQ	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NXX	City	State	HUD Site Type	Transition in Initial Phase
Washington DC Headquarters	Capitol View: 425 3rd Street SW, Washington, DC 20024	Most likely NPA/NNX 202-203	Washington	DC	HQ	Yes
Washington, DC Field Office	820 First Street NE Suite 300 Washington DC 20002-4205	202-275	Washington	DC	Field Office	Yes
Wilmington Field Office	920 North King Street Suite 404 Wilmington DE 19801-3016	302-573	Wilmington	DE	Field Office	Yes
Jacksonville Field Office	Charles E. Bennett Federal Building 400 W. Bay Street Suite 1015 Jacksonville FL 32202	904-232	Jacksonville	FL	Field Office	Yes
Miami Field Office	909 SE 1 Avenue Suite 500 Miami FL 33131	305-536	Miami	FL	Field Office	Yes
Atlanta Regional Office	40 Marietta Street Five Points Plaza Atlanta GA 30303-2806	404-331	Atlanta	GA	Regional Office	Yes
Atlanta Enforcement Center	Richard B. Russell Federal Building 75 Spring Street Room 1070 Atlanta, GA 30303	404-331	Atlanta	GA	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NXX	City	State	HUD Site Type	Transition in Initial Phase
Honolulu Field Office	1132 Bishop Street Suite 1400 Honolulu HI 96813-4918	808-457	Honolulu	HI	Field Office	Yes
Des Moines Field Office	210 Walnut Street Room 239 Des Moines IA 50309-2155	515-284	Des Moines	IA	Field Office	Yes
Boise Field Office	800 Park Boulevard Suite 220 Boise ID 83712-7743	208-334	Boise	ID	Field Office	Yes
Chicago Regional Office	Ralph Metcalfe Fed Building 77 West Jackson Boulevard Chicago IL 60604-3507	312-353	Chicago	IL	Regional Office	Yes
Indianapolis Field Office	151 North Delaware Street Suite 1200 Indianapolis IN 46204-2526	317-226	Indianapolis	IN	Field Office	Yes
Kansas City Regional Office	400 State Avenue Room 200 Kansas City KS 66101-2406	913-551	Kansas City	KS	Regional Office	Yes
Louisville Field Office	601 West Broadway Room 110 Louisville KY 40202	502-582	Louisville	KY	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
New Orleans Field Office	Hale Boggs Federal Building 500 Poydras Street 9th Floor New Orleans LA 70130	504-671	New Orleans	LA	Field Office	Yes
Boston Regional Office	10 Causeway Street 3 rd Floor Boston MA 02222-1092	617-994	Boston	MA	Regional Office	Yes
Baltimore Field Office	10 South Howard Street 5th Floor Baltimore MD 21201-2505	410-962	Baltimore	MD	Field Office	Yes
Bangor Field Office	202 Harlow St. Suite D20200 Bangor ME 04401-4901	207-945	Bangor	ME	Field Office	Yes
Detroit Field Office	477 Michigan Avenue Detroit MI 48226-2592	313-226	Detroit	MI	Field Office	Yes
Minneapolis Field Office	International Centre 920 Second Avenue South Suite 1300 Minneapolis MN 55402	612-370	Minneapolis	MN	Field Office	Yes
Financial Management Center	2380 McGee Suite 400 Kansas City, MO 64108	816-426	Kansas City	MO	Field Office	Yes
St. Louis Field Office	1222 Spruce Street Suite 3207 St Louis MO	314-418	St Louis	MO	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
	63103-2836					
Jackson Field Office	McCoy Federal Building 100 W. Capitol Street Room 910 Jackson MS 39269-1096	601-965	Jackson	MS	Field Office	Yes
Helena Field Office	Paul G. Hatfield U.S. Courthouse 901 Front Street Suite 1300 Helena MT 59626	406-449	Helena	MT	Field Office	Yes
Greensboro Field Office	Asheville Building 1500 Pincroft Road Suite 401 Greensboro NC 27407-3838	336-457	Greensboro	NC	Field Office	Yes
Fargo Field Office	657 2nd Avenue North Room 366 Fargo ND 58108	701-239	Fargo	ND	Field Office	Yes
Omaha Field Office	Edward Zorinsky Federal Building 1616 Capitol Avenue Suite 329 Omaha NE 68102-4908	402-492	Omaha	NE	Field Office	Yes
Manchester Field Office	Norris Cotton Federal Building 275 Chestnut Street 4th Floor Manchester	603-666	Manchester	NH	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
	NH 03101					
Newark Field Office	One Newark Center 13th Floor Newark NJ 07102-5260	973-622	Newark	NJ	Field Office	Yes
Albuquerque Field Office	500 Gold Avenue SW, P.O. Box 906 7th Floor, Suite 7301 Albuquerque NM 87103-0906	505-346	Albuquerque	NM	Field Office	Yes
Las Vegas Field Office	300 E. Carson Ave Suite 400 Las Vegas NV 89101	702-366	Las Vegas	NV	Field Office	Yes
Reno Field Office	745 West Moana Lane Suite 360 Reno NV 89509-4932	775-824	Reno	NV	Field Office	Yes
New York Regional Office	26 Federal Plaza Suite 35-102 New York NY 10278-0068	212-264	New York	NY	Regional Office	Yes
Albany Field Office	52 Corporate Circle Albany NY 12203-5121	518-464	Albany	NY	Field Office	Yes
Buffalo Field Office	Lafayette Court 465 Main Street 2nd Floor Buffalo NY 14203-1780	716-551	Buffalo	NY	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
Columbus Field Office	200 North High Street Columbus OH 43215-2463	513-684	Columbus	OH	Field Office	Yes
Cleveland Field Office	1350 Euclid Avenue Suite 500 Cleveland OH 44115-1815	614-469	Cleveland	OH	Field Office	Yes
Oklahoma City Field Office	301 NW 6th Street Suite 200 Oklahoma City OK 73102	405-609	Oklahoma City	OK	Field Office	Yes
Tulsa Field Office	Williams Center Tower II 2 West Second Street Suite 400 Tulsa OK 74103	918-292	Tulsa	OK	Field Office	Yes
Portland Field Office	Edith Green-Wendell Wyatt Field Office Building 1220 SW Third Avenue, Suite 400 Portland, OR 97204-2825	971-222	Portland	OR	Field Office	Yes
Data Center DR	Note: Location TBD	TBD	TBD	TBD	Data Center DR	Yes
Philadelphia Regional Office	The Wanamaker Building 100 Penn Square, East Philadelphia PA 19107-3380	215-656	Philadelphi a	PA	Regional Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
Pittsburgh Field Office	William Moorhead Federal Building 1000 Liberty Avenue, Suite 1000 Pittsburgh PA 15222-4004	412-644	Pittsburgh	PA	Field Office	Yes
San Juan Field Office	Parque Las Americas 1 Building 235 Federico Costa Street Suite 200 San Juan PR 00918	787-766	San Juan	PR	Field Office	Yes
Providence Field Office	33 Broad St. 4 th Floor Providence RI 02903	401-277	Providence	RI	Field Office	Yes
Columbia Field Office	1835 Assembly Street 13th Floor Columbia SC 29201-2480	803-765	Columbia	SC	Field Office	Yes
Sioux Falls Field Office	4301 West 57th Street Suite 101 Sioux Falls SD 57108	605-330	Sioux Falls	SD	Field Office	Yes
Knoxville Field Office	710 Locust Street, SW Suite 300 Knoxville TN 37902-2526	865-545	Knoxville	TN	Field Office	Yes
Memphis Field Office	200 Jefferson Avenue Suite 300 Memphis TN 38103-2389	901-544	Memphis	TN	Field Office	Yes
Nashville Field Office	235 Cumberland Bend Suite 200	615-736	Nashville	TN	Field Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NXX	City	State	HUD Site Type	Transition in Initial Phase
	Nashville TN 37228-1803					
Fort Worth Regional Office	801 Cherry Street Unit #45 Suite 2500 Ft. Worth TX 76102	817-978	Fort Worth	TX	Regional Office	Yes
Fort Worth Enforcement	819 Taylor St., Suite 13A47, Fort Worth, TX 76102	817-978	Fort Worth	TX	Enforcement	Yes
Houston Field Office	1301 Fannin Suite 2200 Houston TX 77002	713-718	Houston	TX	Field Office	Yes
San Antonio Field Office	Hipolito Garcia Federal Building 615 East Houston Street, Suite 347 San Antonio, TX 78205-2001	210-475	San Antonio	TX	Field Office	Yes
Salt Lake City Field Office	125 South State Street Suite 3001 Salt Lake City UT 84138	801-524	Salt Lake City	UT	Field Office	Yes
Richmond Field Office	600 East Broad Street Richmond VA 23219-4920	800-842	Richmond	VA	Field Office	Yes
Burlington Field Office	95 Saint Paul Street Suite 440 Burlington VT 05401-4486	802-951	Burlington	VT	Field Office	Yes
Seattle Regional Office	909 First Avenue Suite 200 Seattle WA 98104-1000	206-220	Seattle	WA	Regional Office	Yes

HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	HUD SITE	Transition to HEAT
HUD Site Common Name	Site Postal Address	NPA-NX X	City	State	HUD Site Type	Transition in Initial Phase
Milwaukee Field Office	310 West Wisconsin Avenue Room 1380 Milwaukee WI 53203-2289	414-297	Milwaukee	WI	Field Office	Yes
Data Center	Note: Location TBD	TBD	TBD	TBD	Data Center	No
Charleston Field Office	405 Capitol Street Suite 708 Charleston WV 25301-1795	304-347	Charleston	WV	Field Office	Yes
Casper Field Office	150 East B Street Room 1010 Casper WY 82601-1969	307-261	Casper	WY	Field Office	Yes
Guam Field Office	520 West Soledad Avenue U.S. District Courthouse, Suite 117 Hagatna GU 96910	671-472	Hagatna	GU	Field Office	Yes

Exhibit B HUD's Applications Baseline

This section specifies HUD's current applications baseline; this is not considered to be a full listing since other applications will be discovered and new ones will be added over time. The HUD Chief Technology Officer (CTO) will provide a complete list after contract award. The Contractor shall support a 10% growth rate; growth in the number of applications may expand at the same rate as data and personnel, and is estimated to be 10% per year.

B.1 Application Profile

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
ACRS (D04)	OCHCO	3325	1: PROD	3: DB	hlanndp019	Windows 2008	MS SQL Server 2000	(D04_PROD\ 7.7GB)
			2: DEV	3: DB	hdrfndd002	Windows 2008	MS SQL Server 2000	(D04_DEV\ 7.7GB)
			3: TEST	3: DB	hdrfndd003	Windows 2008	MS SQL Server 2000	(D04_TEST\ 7.7GB)
AFOCS (P007)	Single Family Housing	50	1: PROD	1: WEB/APP	hwvanwp763	Windows	HTML, Java, ColdFusion 8.0, AFOCS, ICBTS	(blank)
				2: APP (LAN)	hlanndp017	Windows 2003		(blank)
				3: DB	nthhqp17	Solaris 10	Sybase ASE 15.7	(blank)
			2: DEV	1: WEB/APP	hwvanwt1784	Windows	HTML, Java, ColdFusion 8.0, Sybase Central, Interactive SQL, AFOCS, ICBTS	(blank)
			2: DEV/TEST	3: DB	hwvandd1028	Windows 2008	Sybase ASE 15.7, Sybase Central, Interactive SQL	(F71_Asset - rec\)
			3: TEST	1: WEB/APP	hwvanad639	Windows	HTML, Java, ColdFusion 8.0, Sybase Central, Interactive SQL, AFOCS, ICBTS	(blank)
				2: APP (LAN)	hwvandd1581	Windows 2008	Sybase Central,	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							Interactive SQL	
APPS (F24P)	Multi-Family Housing	20929	1: PROD	1: WEB/APP	hudapps.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
					hudapps2.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
					hwvauap1124-1125	Solaris 10	GlassFish 2.1, Enterprise Cluster	(blank)
			2: DEV		hwvauap606	Solaris 10	GlassFish 2.1, Enterprise Doman Adman Server	(blank)
				3: DB	nthccp08	Windows 2008	Sybase ASE 15.7, Interactive SQL, BCP, Sybase Central	(HEREMS\ 97.8GB+17 GB, HEREMS_Audit\142.4GB+1.8GB)
				3: DB	atlas.hud.gov	Windows 2008	Sybase ASE 15.7, Interactive SQL, BCP, Sybase Central	(HEREMS\ 102GB+18 GB HEREMS_Audit\143GB+2GB, HEREMS_P16\150MB+10MB)
			2: DEV/TEST	1: WEB/APP	hwvalwd1907	Linux 6.4	APPS v12.2, ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
			3: TEST	3: DB	hwvandt1027	Windows 2008	Sybase ASE 15.7, Interactive SQL, BCP, Sybase Central	(HEREMS\ 95GB+17.1 GB, HEREMS_Audit\137.3GB+2GB)
ARCAT S (P136)	OCFO	433	1: PROD	2: APP/DB	lnshhq15p/hud	IBM Z/OS 1.13	Lotus Notes 6.5, NFS	(\185GB)
			2: DEV	2: APP/DB	lnshhq01d/hudrd	IBM Z/OS 1.13	Lotus Notes 6.5, NFS	(many .nfs file\370MB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
)
			3: TEST	2: APP/DB	lnshhq03m/hud	IBM Z/OS 1.13	Lotus Notes 6.5, NFS	(\930MB)
ARCAT S-eCase	OCFO	433	1: PROD	1: WEB/APP	ctsp.hud.gov	Windows 2008	.NET/.IIS 7.5	(blank)
				3: DB	ecasedb-01	Windows 2008	MS SQL Server 2008	(ECASEDB-01\)
ArcGIS	(blank)	433	1: PROD/DEV/TEST	2: APP (License Manager)	hwvanap3070	Windows 2003	(blank)	(blank)
ARM (F11M)	Office of Housing Counseling	4097	1: PROD	2: APP	hwvauap1182	Solaris 10	GlassFish 2.1.1, JROCKIT-JDK 1.6	(blank)
				3: DB	nthhq17	Solaris 10	Sybase ASE 15.7	(\7GB)
			2: DEV	2: APP	hwvauad1126	Solaris 10	GlassFish 2.1.1, JROCKIT-JDK 1.6	(blank)
			2: DEV/TEST	3: DB	hwvandd1028	Windows 2008	Sybase ASE 15.7	(cars_int\7GB) (cars_pilot\7GB)
			3: TEST	2: APP	hwvauad1127	Solaris 10	GlassFish 2.1.1, JROCKIT-JDK 1.6	(blank)
ARRTS (F51S)	Housing	206	1: PROD	2: APP	hwvauap357	Solaris 5.10	Java 8.1_02	(blank)
				3: DB	hlanndp026	Windows 2003	MS SQL Server 2000	(blank)
			2: DEV	2: APP	hwvauad089	Solaris 5.10	Java 8.1_02	(blank)
				3: DB	hdrfndd001	Windows 2008	MS SQL Server 2000	(blank)
					hwvandd4163	Windows 2008	MS SQL Server 2008	(blank)
			3: TEST	2: APP	hwvauap088	Solaris 5.10	Java 8.1_02	(blank)
				3: DB	hwvandd1581	Windows 2008	MS SQL Server 2000	(blank)
					hwvandd4189	Windows 2008	MS SQL Server 2008	(blank)
BOND (D08)	OCFO	5	1: PROD	2: APP	System 2	Unisys OS2200	MAPPER	(blank)
			2: DEV	2: APP	System 3	Unisys OS2200	MAPPER	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
BPM (P274B)	CP&D	public	1: PROD/DEV/TEST	0: WEBtool	portal.hud.gov		portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/mitigation	(blank)
CAIVRS (F57)	Housing	4630	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, COBOL, DEPCON, SFTP, UNIACCESS	(blank)
				3: DB	System 2	Unisys OS2200	IPF, QLP, SQL, CMPlus, RDMS/DMS	(F57SCHEMA\4.3M tracks)
			2: DEV	2: APP	hwvalwd1868	Linux 6.5	ColdFusion 9, COBOL, DEPCON, SFTP, UNIACCESS	(blank)
				3: DB	System 3	Unisys OS2200	IPF, QLP, SQL, CMPlus, RDMS/DMS	(F57SCHEMA\4.3M tracks)
CASS (P091)	PIH	360	1: PROD	2: APP	hlannrp009	Windows 2008	MAPI Protocol for Outlook, .NET/.IIS 5.0, Lotus Notes 6.5	(blank)
				2: APP/DB	hwvaudp1190	Solaris 10	Peregrine Service Center 6.1.3, SC Auto 5.0, Oracle 11g	(blank)
			2: DEV	2: APP/DB	hwvaudd1191	Solaris 10	Peregrine Service Center 6.1.3, SC Auto 5.0, Oracle 11g	(blank)
CHUMS (F17)	Housing	153	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				2: APP	hhhqnap002	Windows 2000	DEPCON EOM 7.1	(blank)
					hwvauap1247	Solaris	Documentum	(blank)
				2: APP/DB	hwvanwp1049-1052	Windows 2003	ASP, Sybase ASE 15.7	(\10.5GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					System 2	Unisys OS2200	CMPlus & Serena Simensions, RDMS-1100, DMS,	(F17RDMS \ 11M tracks)
			2: DEV	1: WEB	hwvalwd1868	Linux 6.5	ColdFusion 9	(blank)
				2: APP	hlanrnd003	Windows 2003	DEPCON EOM 8.1.2	(blank)
					hwvauad1248	Solaris	Documentum	(blank)
				2: APP/DB	hvwandd1044	Windows 2003	ASP, Sybase ASE 15.7	(blank)
					System 3	Unisys OS2200	CMPlus & Serena Simensions, RDMS-1100, DMS	(F17RDMS \ 11M tracks)
			3: TEST	1: WEB/APP / DB	hwvanwd1054	Windows 2003	ASP, Sybase ASE 15.7	(blank)
CLAIMS (A43C)	Single Family Housing	700	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				2: APP/DB	HSYS	IBM Z/OS 1.13	VSAM/DB2	(blank)
			2: DEV	2: APP	hwvauwd233	Solaris 5.10	ColdFusion 9	(blank)
				2: APP/DB	DSYS	IBM Z/OS 1.13	COBOL, Assembly, CICS, VSAM/DB2	(blank)
			3: TEST	2: APP/DB	YSYS	IBM Z/OS 1.13	VSAM/DB2	(blank)
CSFSS (F42)	Single Family Housing	2	1: PROD	2: APP/DB	System 2	Unisys OS2200	COBOL, DEPCON, CMPlus, UNIACCESS, ECL, IPF, UTIL, EXEC, DMP	(PF42*F42 BIA\, PF42*F42 EDA\, PF42*F42 BJA\)
			2: DEV	2: APP/DB	System 3	Unisys OS2200	COBOL, DEPCON, CMPlus, UNIACCESS, ECL, IPF, UTIL, EXEC, DMP	(PF42*F42 BIA\, PF42*F42 EDA\, PF42*F42 BJA\)
DAP (F24A)	Multi-Family Housing	450	1: PROD	3: DB	nthccp08	Windows 2008	Sybase ASE 15.7	(\3.5GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
			2: DEV	3: DB	hwvandt1028	Windows 2008	Sybase ASE 15.7	(\5GB)
			3: TEST	3: DB	hwvandt1027	Windows 2008	Sybase ASE 15.7	(daps\3.5GB)
DCAMS (F71/F71A)	Office of Financial Services	53	1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	COBOL/390, CICS, JCL, VSAM, IMS	(F71P.DM C.DMCF001\, F7AP.HGD .HGDF001\)
DDSS+ (D074)	OCHCO	10	1: PROD	3: DB	hlanndp016	Windows 2008	MS SQL Server 2000, Sybase ASE 15.7	(D074_SPP_PROD\1.9GB)
			3: TEST	3: DB	hwvandt158	Windows	MS SQL Server 2000	(D074_TEST\1.9GB)
DECMS (V02A)	OGC	800	1: PROD	1: WEB/APP	hudSharePoint.hud.gov	Windows 2008	SharePoint 2010	(blank)
					hudwebapps6	Windows	ASP, Crystal Reports 8, ActiveX Control	(blank)
				3: DB	hlanndp026	Windows 2003	MS SQL Server 2000	(DECMSD B\)
			2: DEV	1: WEB/APP	nthhqd143	Windows 2003	ASP, Crystal Reports 8, ActiveX Control	(blank)
				2: APP	SharePoint	Windows 2008	(blank)	(blank)
				3: DB	hdrfndd002	Windows 2008	MS SQL Server 2000	(V02A_DEV\)
			3: TEST	1: WEB/APP /DB	hudspdev.hud.gov	Windows 2008	SharePoint	(blank)
DMM (P142)	OCIO	500	1: PROD	2: APP	HSYS	IBM Z/OS 1.13	Lotus Notes 6.5	(blank)
				3: DB	nthccp16		Lotus Notes 6.5, RDBMS	(blank)
DNL (P274D)	CP&D	(blank)	1: PROD/DEV	0: WEBtool	portal.hud.gov		http://portal.hud.gov/hudportal/HUD?src=/program_of_fices/comm_planning/environment/dnlcalculatortool	(blank)
DRGR (C08A)	Office of Block Grant Assistance	4574	1: PROD	1: WEB/APP	hwvalwp1908-1911	Linux	Sun ONE Application Server 8.1, Java 1.5,	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							MicroStrategy BI suite 9.3	
				2: APP	hwvauap1836-1837	Solaris 10	Sun ONE 8.1, Java 1.5	(blank)
				2: APP (BI Server)	hwvalap1912-1915	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (MAP)	hwvanap1288	Windows 2003	.NET/.IIS	(blank)
				2: APP/DB	hwvaldp1916-1917	Linux	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaldp1874	Linux 5.1	Oracle 11g	(c08\, c08olap\, C08PROD\ 120GB)
			2: DEV	2: APP	hwvauwd173	Solaris 10	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				2: APP (BI Server)	hwvalad1925-1926	Linux	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				2: APP (MAP)	hwvanad1287	Windows 2003	.NET/.IIS	(blank)
				2: APP/DB	hwvaldd1927	Linux 6.4	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaldd1870	Linux 5.1	Oracle 11g	(c08sqa\, c08\, c08olap\ 120GB)
			2: DEV/TEST	1: WEB/APP	hwvalwt1933-1934	Linux	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
			3: TEST	2: APP	hwvauat1695	Solaris 10	Sun ONE Application Server 8.1,	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							Java 1.5, MicroStrategy BI suite 9.3	
				2: APP (BI Training)	hwvalat1935-1936	Linux	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				2: APP (MAP for Training)	hwvanat1288	Windows 2003	.NET/.IIS	(blank)
				2: APP (Training)	hwvauat263	Solaris 10	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				2: APP/DB (Training)	hwvaldt1937	Linux 6.4	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3	(blank)
				3: DB (Training)	hwvaldt1873	Linux 5.1	Oracle 11g	(c08\, c08olap\, C08test\120GB, c08uat\120GB)
DSRS (A80D)	Single Family Housing	25	1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	CICSTS 4.1, Direct Network Data Mover 4.5, ISPF 6.3, JES2 MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8	(\61.8TB)
			2: DEV	2: APP/DB	DSYS	IBM Z/OS 1.13	Enterprise COBOL 4.2M0, CA Endevor 7, CICSTS 4.1, MVS/Data Facility 03.01.13.00, TSO/E 3130, Connect:Direct Network	(\1.5GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							Data Mover 4.5M00, DB2 v8	
			3: TEST	2: APP/DB	YSYS	IBM Z/OS 1.13	CICST 4.1, Direct Network Data Mover 4.5, ISPF 6.3, JES2 MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8	(\61.8TB)
EBITS (P257)	OCIO	16	1: PROD	3: DB	hwvaudp783	Solaris	Oracle	(P257PROD\20GB)
			1: PROD/TEST	1: WEB/APP	hwvanap3277	Windows 2008	System Architect 11.4.1.1, information web publisher 11.4.1.1, IRMA, flexLM license management tool, Citrix XenApp Desktop	(blank)
			3: TEST	3: DB	hwvaudt775	Solaris	Oracle	(P257TEST\20GB)
ECIS (V01A)	OGC	142	1: PROD	1: WEB/APP	hudSharePoint.hud.gov	Windows 2008	SharePoint 2010	(blank)
			2: DEV	3: DB	SharePoint	Windows 2008	SharePoint 2010	(blank)
			2: DEV/TEST	1: WEB/APP	hudspdev.hud.gov	Windows 2008	SharePoint 2010	(blank)
ECPCIS (V03A)	OGC	179	1: PROD	1: WEB/APP	hudwebapps6	Windows	.NET/.IIS, ASP, SharePoint 2010	(blank)
				3: DB	hlanndp026	Windows 2003	MS SQL Server 2000	(ECPCIS\)
			1: PROD/DEV	1: WEB/APP	www5.hud.gov	Solaris	Java, JavaScript, SharePoint 2010	(blank)
			2: DEV	1: WEB/APP	hudspdev.hud.gov	Windows 2008	SharePoint 2010	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					nthhqd143	Windows 2003	.NET/.IIS, ASP, SharePoint 2010	(blank)
				3: DB	hdrfndd001	Windows 2008	MS SQL Server 2000	(ECPCIS\)
EDIS (U26A)	(blank)	1571	1: PROD	2: APP	HSYS	IBM Z/OS 1.13	IBM Gentran for MVS/Data Facility 6.4	(blank)
			2: DEV	2: APP	DSYS	IBM Z/OS 1.13	IBM Gentran for MVS/Data Facility 6.4	(blank)
ERM/CT S/FMS2 (P228)	OCHCO	(blank)	2: DEV	2: APP	ctsp.hud.gov	Windows 2008	.NET/.IIS 7.5, CatExpress, FOIAxpress	(blank)
				3: DB	ecasedb-01	Windows 2008	MS SQL Server 2008	(ECASED B-01\)
eSNAPS (C38)	CP&D Office of Special Needs Assistance Programs	18600	1: PROD	2: APP	hwvalap1966-1973	Linux	Jboss 1.5, Grantium G3 3.4.3.2	(blank)
				3: DB	hwvaldp1974	Linux	Oracle , OLTP	(C38PRD\, C38RPT\50GB)
			2: DEV	2: APP	hwvalad1943-1944	Linux	Jboss 1.5, Grantium G3 3.4.3.2, Java 1.5	(blank)
				3: DB	hwvaldd1945	Linux	Oracle , OLTP	(blank)
			3: TEST	2: APP	hwvalat1962-1963	Linux	Jboss 1.5, Grantium G3 3.4.3.2, Java 1.5	(blank)
				3: DB	hwvaldt1964	Linux	Oracle , OLTP,	(C38TPRD \, C38TRPT\ 50GB)
EZB (D61)	OCFO, office of budget	140	1: PROD	3: DB	hlanndp026	Windows 2003	MS SQL Server 2000	(D61_PROD\)
			1: PROD/DEV/TEST	2: APP (LAN)	hlannfp019	Windows 2003	EZBudget 6.7	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
			2: DEV	0: DESKTOP	DeskTop		PowerBuilder v 11.5, MS SQL Server client 2000	(blank)
				3: DB	hdrfndd002	Windows 2008	MS SQL Server 2000	(D61_DEV\)
			3: TEST	3: DB	hwvandt1581	Windows 2008	MS SQL Server 2000	(D61_TEST\)
EZ-RC-PERMS (C39)	CP&D Office of Community Renewal	300	1: PROD	1: WEB/APP	nthccp07	Windows 2008	ASP 3.0	(blank)
				3: DB	hlanndp019	Windows 2008	MS SQL Server	(PERMS\500MB)
			2: DEV	1: WEB/APP	hwvandt1581	Windows 2008	ASP 3.0	(blank)
				3: DB	hdrfndd002	Windows 2008	MS SQL Server	(PERMS\500MB)
			3: TEST	1: WEB/APP	hdrfnwd001	Windows 2008	ASP 3.0	(blank)
				3: DB	hdrfnff006	Windows 2008	MS SQL Server	(PERMS\500MB)
FDM (A75R)	OCFO	1158	1: PROD	1: WEB	hwvanwp1258	Windows 2003	.NET v4, .NET/.IIS v6, Adobe ColdFusion MX8	(blank)
				2: APP (BI)	hwvanap1159 hwvanap1181	Windows 2003	IBM Cognos 8.4	(blank)
				3: DB	hwvaldp3534	Linux	Oracle 11g	(A75RWR HD\10GB)
					hwvandp1143	Windows 2003	MS SQL Server 2005	(a75r_jrnis\, a75r_PROD\, a75r_tran\, cognos_audit\, cognos_cm\),(travel/1.05 TB)
			2: DEV	1: WEB	hwvanad1263	Windows 2003	.NET v4, .NET/.IIS v6, Adobe ColdFusion MX8	(blank)
				2: APP (BI)	hwvanad1389-1390	Windows 2003	IBM Cognos 8.4,	(blank)
				3: DB	hwvaldd3510	Linux	Oracle 11g	(A75RWR HD\9.1GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					hwvandd1142	Windows 2003	MS SQL Server 2005	(a75r_jrnis, a75r_PRO D, a75r_tran, cognos_audit, cognos_cm, travel\ 365.7GB)
FDOnline	OGC	2500	1: PROD	1: WEB	hwvanwp1258	Windows 2003	MS .NET 4, Adobe ColdFusion MX8	(blank)
				2: APP	hwvanap1159 hwvanap1181	Windows 2003	IBM Cognos 8.4	(blank)
				3: DB	hwvaldp3534	Linux	Oracle 11g	(A75RWR HD\10GB)
					hwvandp1143	Windows 2003	MS SQL Server 2005	(travel\1.05 TB)
FHAC (F17C)	Housing	76510	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				3: DB	System 2	Unisys OS2200	Unisys RDMS-1100	(F17RDMS \)
				3: DB (webDB)	hwvaldp3330	Linux	Oracle	(F17Webd p\)
			2: DEV	3: DB	System 3	Unisys OS2200	Unisys RDMS-1100	(F17RDMS \)
				3: DB (webDB)	hwvaldd3234	Linux 6.4	Oracle	(F17webdd \)
FHA-CRM (P256)	(blank)	863	1: PROD	1: WEB/APP / DB	hwvaldp3500	Linux	Siebel on Premise (Oracle)	(CRMOLA PP\, CRMOLTP P\)
			2: DEV	1: WEB/APP / DB	hwvaldd3493	Linux	Siebel on Premise (Oracle)	(blank)
			3: TEST	1: WEB/APP /DB	hwvaldt3495	Linux	Siebel on Premise (Oracle)	(blank)
FHASL (P013)	(blank)	186	1: PROD	1: WEB	hwvanap3139 hwvanap3150	Windows 2008	PeopleSoft	(blank)
				2: APP	hwvalap3141-3142	Linux 5.8	PeopleSoft Financial 8.8	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					hwvalap3181-3182		Revenue Management 8.9	
					hwvalap3143	Linux 5.8	STAT 5.6	(blank)
					hwvalrp3145	Linux 5.8	TWS 8.6.0.02	(Work Scheduler)
				3: DB	hwvaldp3139	Linux 5.8	Oracle 11.2.0.3.0	(F88PRO\, R89PRO\, F91PGP\, F88SUP\, R89SUP\1.4TB)
					hwvaldp3183	Linux 5.8	Oracle 11.2.0.3.0	(F88PRO\, R89PRO\, F91PGP\, F88SUP\, R89SUP\1.4TB)
			2: DEV	2: APP	hwvalap3131-3132	Linux 5.8	PeopleSoft Financial 8.8 Revenue Management 8.9	(blank)
					hwvalap3136-3137			
					hwvanat3152-3153	Windows 2008	PeopleSoft, APPS	(blank)
			3: DB		hwvaldp3133	Linux 5.8	Oracle 11.2.0.3.0	(F88DEV\, R89DEV\, F88FYE\, F91PGQ\ 1.3TB)
					hwvaldt3138			(F88VVT\, F88UAT\, R89VVT\, R89UAT \1.9TB)
			3: TEST	2: APP	hwvalad3131	Linux 5.8	PeopleSoft PeopleTools 8.52	(blank)
FHITS (V02A)	Fair Housing & Equal Opportunity (FHEO)	1000	1: PROD	2: APP	hwvauap407	Solaris	Sun ONE	(blank)
				2: APP (Report Server)	hwvaldp3014	Linux	Oracle 11g	(blank)
				3: DB	hwvaudp408	Solaris	Oracle 11g	(blank)
			2: DEV	2: APP	hwvauad403	Solaris	Sun ONE	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP (Report)	hwvaldd3013	Linux	Oracle 11g (report server)	(blank)
				3: DB	hwvaudd404	Solaris	Oracle 11g	(blank)
				3: TEST	hwvauat405	Solaris	Sun ONE	(blank)
				2: APP (Report)	hwvaldt3015	Linux	Oracle 11g	(blank)
				3: DB	hwvauat406	Solaris	Oracle 11g	(blank)
		(blank)	1: PROD	2: APP	hlanndp019	Windows 2003	Archibus 16	(blank)
FIRMS (D67A)	OCHCO	(blank)	1: PROD	3: DB	hlanndp028	Windows 2003	Oracle 9.2.0.8.0i	(FIRMS\35.9GB)
			2: DEV	2: APP	hhhqnfpv001	Windows 2003	Archibus 16	(blank)
				3: DB	hlanndp035	Windows 2003	dbsoftware	(FIRMS_Train\35.9GB)
GIMS II (P017)	OSPM/ GMO	1500	1: PROD	1: WEB/APP	hwvauap1198	Solaris 10	Java 8.2, Grantium G3	(blank)
				2: APP (Batch)	hdrfnwp008	Windows 2003	OmniFormat	(blank)
				3: DB	hwvaldp3524	Linux 6.4	Oracle 11.2 , SQL Developer,	(P017PROD\460GB, eGrantsP\100GB)
			2: DEV	2: APP	hwvauad1318	Solaris 10	Java 8.2, Grantium G3	(blank)
				3: DB	hwvaldd3514	Linux 6.4	Oracle 11.2 , Oracle SQL Developer	(P017DEV\400GB, eGrants\100GB)
			3: TEST	1: WEB/APP	hwvauat1316	Solaris 10	Java 8.2, Grantium G3 3.4.5.0	(blank)
				3: DB	hwvaldt3513	Linux 6.4	Oracle 11.2 , Oracle SQL Developer,	(P017TEST\400GB)
GMP (C07A)	CP&D	900	1: PROD	2: APP	hwvauap431	Solaris 10	J2EE Web/app server, GlassFish	(blank)
				3: DB	hlanndp019	Windows 2008	MS SQL Server 2005, PowerBuilder 6.5,	(blank)
					hwvaldp3542	Linux	Oracle 11g	(c07aPROD\, c07arptp\)
				2: DEV	hwvauwd391	Solaris 10	J2EE Web/app server, Java 6, GlassFish	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							3.1	
				3: DB	hdrfndd002	Windows 2008	MS SQL Server 2005, PowerBuilder 6.5,	(GMP_DE V\)
					hwvaldd3547	Linux	Oracle 11g	(c07aDEV\, c07arptd\)
			3: TEST	2: APP	hwvauwt248	Solaris 10	J2EE Web/app server, Java 6, GlassFish 3.1	(blank)
				3: DB	hwvaldt3549	Linux	Oracle 11g	(c07auat\, c07arpt\)
					hwvandd1581	Windows 2008	MS SQL Server 2005, PowerBuilder 6.5, client/server dbms,	(GMP_TEST\)
GMS	OSHC	172	3: TEST	2: APP	10.1.1.180	Solaris 5.1	OSHC GMS	(blank)
				3: DB	10.1.1.61	Solaris 5.1	Oracle SQL Developer 3.2	(Orade\10 MB)
GSC (P207)	PD&R	unlimited	1: PROD	1: WEB/APP	hudSharePoint.hud.gov	Windows 2008	SharePoint for collaboration	(blank)
				2: APP (Com Bridge)	hwvanrp568	Windows	Sybase Direct Connect v12	(blank)
				2: APP/DB	HSYS	IBM Z/OS 1.13	GSC C90, C2k, C2kX, FTP, NSC Hyperchannel, CA XCOM, Sybase Mainframe Connect, CA Endeavor 7, CICS TS v4.1, DB2I, SMF, BMC, DB2 V8	(A15P001\ 19.8K cylinders)
			1: PROD/DEV	1: WEB	hudatwork	Windows 2003	Coldfusion	(blank)
			2: DEV	1: WEB/APP	hhhqnwd024	Windows	Coldfusion	(blank)
				2: APP (Com Bridge)	hwvanrd564	Windows	Sybase Direct Connect v12	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP/DB	DSYS	IBM Z/OS 1.13	z/OS COBOL 4.2, PitneyBowes Goup1 Code 1 Plus 3.4, Oracle Client for z/OS, CICS TS 4.1, Java, NSC HyperChannel, FTP, CA XCOM, Sybase Mainframe Connect, CA Endeavor 7, DB2I, SMF, BMC, DB2 V8	(A15D001\ 23.3K cylinders, A15T001\ 19.7K cylinders)
					hwvauat200	Solaris 5.10	Shell Scrits, Oracle loader, Oracle client, Oracle 10g	(GEOHUD DV\70GB)
			3: TEST	2: APP/DB	YSYS	IBM Z/OS 1.13	GSC C90, C2k, C2kX, CA Endeavor 7, CICS 4.1, DB2I, QMF, BMC DB2 v8	(A15P001\ 19.8K cylinders)
HCFSS (A39)	OCFO	57	1: PROD	1: WEB	hwvanap1622	Windows 2008	Hyperion Foundation Services, EPM web server	(blank)
				2: APP	hwvanap1623	Windows 2008	Hyperion Financial Management (HFM), Financial Data Quality Management (FDQM)	(blank)
					hwvanap1624	Windows 2008	Financial Reporting	(blank)
				3: DB	hwvaldp3456	Linux 6.4	Oracle 11.2.0.3.0, Oracle SQL*Plus	(A39HFM PD\148GB)
			2: DEV	1: WEB	hwvanad1631	Windows 2008	Hyperion Foundation Services, EPM web server	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP	hwvanad1632	Windows 2008	Hyperion Financial Management (HFM), Financial Data Quality Management (FDQM)	(blank)
					hwvanad1633	Windows 2008	Financial Reporting	(blank)
				3: DB	hwvaldd3512	Linux 6.4	Oracle 11.2.0.3.0, Oracle SQL*Plus	(A39HFM DV\198GB)
HCM (D49)	OCHCO	3	1: PROD	3: DB	nthhqp25	Windows 2000	MS SQL Server 2000	(HCM\ 6.4GB)
HCS (F11)	Office of Housing Counseling	4171	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				3: DB	hwvaudp1037	Solaris	Oracle	(F11PROD\4.3GB)
					nthhqp17	Solaris 10	Sybase ASE 15.7	(cars, cars_arch\ 6.8GB)
			2: DEV	1: WEB/APP	hwvauad089	Solaris 5.10	ColdFusion 9	(blank)
				3: DB	hwvaldd3480	Linux 6.5	Oracle 11g	(F11DEV\ 4.3GB)
			2: DEV/TEST	3: DB	hwvandd1028	Windows 2008	Sybase ASE 15.7	(LASS_DEV\, LASS_TEST\, LASS_PROD\16GB), (cars_int\, cars_arch\ 6.8GB)(cars\ 6.8GB)
				3: TEST	1: WEB/APP	hwvalwd3231	Linux 6.5	ColdFusion 9
				3: DB	hwvaudd1039	Solaris	Oracle	(F11TEST\ 4.3GB)
HEMS (V05)	OGC	(blank)	2: DEV	2: APP	hwvalad3063	Linux	WebLogic 10.3.6	(blank)
				3: DB	hwvaudd404	Solaris	Oracle 11g	(VOEHMSD\ 2.5GB)
			3: TEST	2: APP	hwvalat3081	Linux	WebLogic 10.3.6	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				3: DB	hwvautd406	Solaris	Oracle 11g	(VO5HEM ST\ 2.5GB)
HERMIT (P271)	Housing	2750	1: PROD	1: WEB (AM Server)	hecaltweb01	Windows 2003	Oracle 11g	(blank)
				1: WEB (SM Server)	hecweb01-b02	Windows 2008	MS SQL Server 2008	(blank)
				3: DB (AM Server)	hecaltddb01	Windows 2003	Oracle 11g	(blank)
			2: DEV/TEST	3: DB (SM Server)	hecmsql01-02	Windows 2008	MS SQL Server 2008	(blank)
				1: WEB (AM Server)	hecaltweb	Windows 2008	Oracle 11g	(blank)
				1: WEB (SM Server)	hecweb	Windows 2008	MS SQL Server 2008	(blank)
				3: DB (AM Server)	hecaltddb	Windows 2003	Oracle 10g	(blank)
				3: DB (SM Server)	hecmsql	Windows 2008	MS SQL Server 2008	(blank)
HEROS (C04H)	Office of Environment and Energy	4150	1: PROD	2: APP	hwvalap3307-3308	Linux 6.5	Java 1.7, WebLogic 12.1.2, JROCKIT-JDK 1.7.0.25	(blank)
				3: DB	hwvaldp3706	Linux 6.5	Oracle 11g	(C04HEROS\)
			2: DEV	2: APP	hwvalad3761-3762	Linux 6.5	Java 1.7, WebLogic 12.1.2, JROCKIT-JDK 1.7.0.25	(blank)
				3: DB	hwvaldd3398	Linux 6.5	Oracle 11g	(C04HEROS\)
			3: TEST	2: APP	hwvalat1886-1887	Linux 6.5	Java 1.7, WebLogic 12.1.2, JROCKIT-JDK 1.7.0.25	(blank)
				3: DB	hwvaldt3483	Linux 6.5	Oracle 11g	(C04HEROS\)
					hwvaldt3507	Linux 6.5	Oracle 11g	(C04HEROS\)
HIAMS (P273)	OCPO	1294	1: PROD	1: WEB	hwvanwp1674-1678	Windows	PRISM v70.54.02.18	(blank)
				3: DB	hwvaldp167	Linux	Oracle	(P273PRD\)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					0-1672)
			2: DEV	1: WEB	hwvanwd1682 hwvanwd1860	Windows	PRISM v70.54.02.18	(blank)
				3: DB	hwvaldd1666	Linux	Oracle	(P273PRD\)
			3: TEST	1: WEB	hwvanwt1685-1686	Windows	PRISM v70.54.02.18	(blank)
				3: DB	hwvanwt1687-1689	Windows 2003	Oracle	(P273UAT\)
HIHRTS (P162)	OCHCO	many	1: PROD	3: DB	hwvaudp514	Solaris	Oracle 10g	(blank)
			2: DEV/TEST	3: DB	hwvaudd515	Solaris	Oracle 10g	(blank)
HIHRTS DS (P162D)	OCHCO	10	1: PROD	2: APP	hwvanap566	Windows 2008	PeopleTools 8.49, Ascential DataStage (ETL)	(blank)
				2: APP/DB	hwvaldp3531	Linux 6.0	PeopleSoft EPM9.0, Ascential DataStage (ETL), Oracle 11g	(EPDRD\16GB)
			2: DEV/TEST	2: APP	hwvanap565	Windows 2008	PeopleTools 8.49, Ascential DataStage (ETL)	(blank)
				2: APP/DB	hwvaldd3539	Linux 6.0	PeopleSoft EPM 9.0, Ascential DataStage Server ETL, PeopleTool 8.49, Oracle 11g	(EPDEV\16GB)(EPTST\16GB)
HMIMIS (P046)	Office of Healthcare Programs	50+	1: PROD	1: WEB/APP	hwvanap1312	Windows 2008	ColdFusion 9	(blank)
				3: DB	nthhqp17	Solaris 10	Sybase ASE 15.7	(P046_HMIMIS\)
			2: DEV/TEST	1: WEB/APP	172.21.111.76	Windows 2003	ColdFusion 9	(blank)
				3: DB	172.21.80.45	Windows 2003	Sybase ASE 15.7	(P046_HMIMIS\)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
HM-OPI IS (P220)	Multi-Family Housing	1500	1: PROD	3: DB	hwvaldp3460	Linux 6.0	Oracle 11g	(OEMFTD B1\, INFOREP\, OEMFTD B1\, INFOREP\)
					hwvaldp3745	Linux 6.0	Oracle 11g	(OEMFTD B1\, INFOREP\, OEMFTD B1\, INFOREP\)
					hwvaudp1122	Solaris 10	Oracle 11g	(OEMFTD B1\, INFOREP\, OEMFTD B1\, INFOREP\)
			2: DEV	3: DB	hwvaldd3381	Linux 6.0	Oracle 11g	(OEMFDD B1\)
					hwvaldd3749	Linux 6.0	Oracle 11g	(INFOREP)
					hwvaudd1601	Solaris 10	Oracle 11g	(OEMFDD B1\, INFOREP- current\)
			3: TEST	3: DB	hwvaldt3458	Linux 6.0	Oracle 11g	(OEMFTD B1\)
					hwvaldt3755	Linux 6.0	Oracle 11g	(INFOREP)
					hwvaudt1638	Solaris 10	Oracle 11g	(OEMFTD B1\, INFOREP- current\)
HPNFC (D72P)	OCHCO	(blank)	1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	COBOL, CA Endevor 7, DB2 v10	(A75CPT_ HUD_NFC \, A75CPT_ ORG\)
			2: DEV	2: APP	DSYS	IBM Z/OS 1.13	COBOL (accessing PROD db)	(blank)
HPS/SP S (P035)	OCHCO	224	1: PROD	2: APP/DB	hlanndp016	Windows 2008	PowerBuilder 9, MS SQL Server 2000	(P035_PR OD\)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database/ Size
HUD eGIS (D77)	PD&R	25250	1: PROD	1: WEB/APP (GIS)	hwvanap1286	Windows 2003	ArcGIS Server SOM, SOC, Oracle 11g client r11.2.0.1.0, .NET web services, eGIS Web applications, .NET/.IIS	(blank)
				3: DB	hwvaudp1290	Solaris 5.10	Oracle 11g EE r11.2.0.1.0, ArcSDE 10.0	(blank)
			2: DEV	1: WEB/APP (GIS)	hwvanad1287	Windows 2003	ArcGIS Server SOM, SOC, Oracle 11g client r11.2.0.1.0, .NET web services, eGIS Web applications, .NET/.IIS	(blank)
				3: DB	hwvaudd1252	Solaris 5.10	Oracle 11g EE r11.2.0.1.0, ArcSDE 10.0	(blank)
			3: TEST	1: WEB/APP	hwvanat1288	Windows 2003	ArcGIS Server SOM, SOC, Oracle 11g client r11.2.0.1.0, .NET web services, eGIS Web applications, .NET/.IIS	(blank)
				3: DB	hwvaudt1291	Solaris 5.10	Oracle 11g EE r11.2.0.1.0, ArcSDE 10.0	(blank)
			1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	UDCAPS, VSAM/DB2 v8.1	(A751H001\, A75PH01-08\101.2 TB)
				2: APP/DB	DSYS	IBM Z/OS 1.13	COBOL II, Assembly, JCL, DB2 V8.1	(A75xxx\80GB)
			2: DEV	2: APP/DB	DSYS	IBM Z/OS 1.13	COBOL II, Assembly, JCL, DB2 V8.1	(A75xxx\80GB)
			3: TEST	2: APP/DB	YSYS	IBM Z/OS 1.13	COBOL II, JCL, DB2 8.1	(A75yyy\103GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
HUDSTAT (P275)	Office of the Secretary	330	1: PROD	1: WEB	hwvalwp1908-1911	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP	hwvalap1912-1915	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaudp1580	Solaris	Oracle 11g	(HUDSTATT\25GB)
			1: PROD/DEV	2: APP (ETL Batch)	hwvaudd1601	Solaris 10	Informatica PowerCenter 8.6.1	(blank)
			2: DEV	1: WEB	hwvalwd1923-1924	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI Server)	hwvalad1925-1926	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaudd1335	Solaris	Oracle 11g	(HUDSTATT\25GB)
			3: TEST	1: WEB	hwvalwt1933-1934	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP	hwvalat1935-1936	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaudt1579	Solaris	Oracle 11g	(HUDSTATT\25GB)
IDIS (C04)	CP&D	9168	1: PROD	2: APP	hwvauap1958-1959	Solaris 10	Java 1.5, SJSAS, JROCKIT-JDK 1.5	(blank)
					hwvauap221-222	Solaris 10	Java 1.5, SJSAS, JROCKIT-JDK 1.5	(blank)
				3: DB	hwvaldp3705	Linux 6.4	Oracle 11.g. R2, OLAP	(CRPTPROD)
					hwvaldp3706	Linux 6.5	Oracle 11.g. R2, OLTP	(C04PROD)
			2: DEV	2: APP	hwvalad3477-3478	Solaris 10	Java 1.5, SJSAS, JROCKIT-JDK 1.5	(blank)
				3: DB	hwvaldd3398	Linux 6.5	Oracle 11.g. R12, OLTP, OLAP	(blank)
					hwvaldd3399	Linux 6.5	Oracle 11.g. R12, OLTP, OLAP	(blank)
			3: TEST	2: APP	hwvalat3767-3768	Linux	Java 1.5, SJSAS, JROCKIT-JDK 1.5	(blank)
				3: DB	hwvaldt3483	Linux 6.5	Oracle 11.g. R2, OLTP	(blank)
					hwvaldt3507	Linux 6.5	Oracle 11g,	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							OLTP, OLAP	
IMF (F51)	Housing	(blank)	1: PROD/DEV	2: APP/DB	nthhqp16	Windows 2008	Sybase ASE 15.7	(blank)
IOD (P252)	OCIO	(blank)	1: PROD	1: WEB	Portalapps.hud.gov		WebLogic 10.3.6	(blank)
				2: APP/DB	hwvaldp1899	Linux	Oracle ColdFusion 11.1.1.5, Oracle 11g	(blank)
			2: DEV	1: WEB	devportalapps.hud.gov		WebLogic 10.3.6	(blank)
			2: DEV/TEST	2: APP/DB	hwvalad1828	Linux	Oracle Fusion Middleware 11.1.1.5, Oracle 11g	(blank)
			3: TEST	1: WEB	testportalapps.hud.gov		WebLogic 10.3.6	(blank)
iREMS/iBFM (F24)	Multi-Family Housing	3309	1: PROD	1: WEB/APP	hudapps2.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
				2: APP	hwvalap2029	Linux 6.0	WebLogic 11g	(blank)
				3: DB	hwvaldp3459	Linux 6.0	Oracle 11g	(IREMS\ 24GB)
					nthccp08	Windows 2008	Sybase ASE 15.7	(HEREMS\ 127GB)
			2: DEV	2: APP	hwvalat2028	Linux 6.0	WebLogic 11g	(blank)
				3: DB	hwvaldt3457	Linux 6.0	Oracle 11g	(IREMSTST\ 24GB)
					hwvandt1027	Windows 2008	Sybase ASE 15.7	(HEREMS\ 127GB)
			2: DEV/TEST	2: APP	hwvalwd1907	Linux 6.4	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
			3: TEST	2: APP	hwvalad1895	Linux 6.0	WebLogic 11g	(blank)
				3: DB	hwvaldd3380	Linux 6.0	Oracle 11g	(IREMSDEV\ 24GB)
					hwvandt1028	Windows 2008	Sybase ASE 15.7	(HEREMS\ ,remscurrent\ 127GB)
LAP	(blank)	public	1: PROD	1: WEB	winhud-1	Windows 2008	Amazon EC2 m1.large, ASP.Net 4.0, .NET/.IIS 6	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP/DB	MAPSERVER-1	Linux 6.3	Amazon EC2 m2.2Xlarge, apache 2.4.3, PHP, Map server 6.0.3, Google MAPs API, PostgreSQL GUI, PostgreSQL 8.4	(\19GB)
			2: DEV	2: APP/DB	Local Server (BANJO)	Windows 8 pro	MS Visual Studio Pro 2012, MS SQL Server 2008, MS SQL Server Management Studio	(HUDLAP\136MB)
LAS (A21)	OCFO	33	1: PROD	2: APP	hwvanap351	Windows 2003	Northridge Loan System (NLS) 4.5.23	(blank)
				3: DB	hlanndp016	Windows 2008	MS SQL Server 2008, Management Studio	(NLS_PROD\)
			2: DEV/TEST	2: APP	hdrfndd010	Windows 2003	Northridge Loan System (NLS) 4.5.23, .NET 4.0	(blank)
				3: DB	hdrfndd001	Windows 2008	MS SQL Server 2008, Management Studio	(NLS_DEV\), (NLS_UAT\)
LASS (P096)	Single Family Housing	51	1: PROD	2: APP	lassapps.hud.gov	Linux 6.5	ColdFusion 9	(blank)
				3: DB	nthccp08	Windows 2008	Sybase ASE 15.7	(LASS\17GB)
			2: DEV	2: APP	hwvalwd3290	Linux 6.5	ColdFusion 9	(blank)
				3: DB	hwvandd1028	Windows 2008	Sybase ASE 15.7	(LASS_DEV\, LASS_TEST\, LASS_PROD\16GB), (cars_int\, cars_arch\6.8GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
LEAP (P278)	Housing	12300	1: PROD	1: WEB (FHA BU)	hwvalwp3948-3949	Linux	http://SOAfha.hud.gov	(blank)
				1: WEB (OSH for external users)	hwvalwp4028-4029	Linux	http://services.hud.gov http://webapps.hud.gov	(blank)
				1: WEB (OSH for Internal users)	hwvalwp3946-3947	Linux	http://intraser vices.hud.gov https://intrase rvices.hud.gov http://bi.hud.gov http://sblbi.hud.gov	(blank)
				1: WEB (Siebel)	hwvalwp3950-3951	Linux	http://sblfha.hud.gov/*	(blank)
				2: APP	hwvalap3878-3879	Linux	http://webapps.hud.gov/*	(blank)
				2: APP (BAM/SOA)	hwvalap3891	Linux	(blank)	(blank)
				2: APP (BI Publisher)	hwvalap4063-4064	Linux	http://sblbi.hud.gov/*	(blank)
				2: APP (BI)	hwvalap3884-3885	Linux	http://bi.hud.gov/*	(blank)
				2: APP (Gateway/Siebel)	hwvalap3896	Linux	(blank)	(blank)
				2: APP (OID)	hwvalap3880	Linux	(blank)	(blank)
				2: APP (OSB)	hwvalap3882-3883	Linux	http://services.hud.gov/* http://intraser vices.hud.gov/*	(blank)
				2: APP (Siebel)	hwvalap3897-3898	Linux	(blank)	(blank)
				2: APP (SOA)	hwvalap3889-3890	Linux	http://soafha.hud.gov/*	(blank)
				2: APP/DB	hwvalap1708	Linux	Oracle/Siebel FFSP	(blank)
				3: DB (ADF)	hwvaldp3921	Linux	WebLogic, Application Development Framework	(blank)
				3: DB (BI Publisher (OBIEE))	hwvaldp3928	Linux	(blank)	(blank)
				3: DB (OID)	hwvaldp3923	Linux	(blank)	(blank)
				3: DB	hwvaldp392	Linux	(blank)	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				(OSB)	9			
				3: DB (Siebel)	hwvaldp3938	Linux	(blank)	(blank)
				3: DB (SOA)	hwvaldp3934	Linux	(blank)	(blank)
				3: DB (WL/ADF DW)	hwvaldp3924	Linux	(blank)	(blank)
			2:DEV	1: WEB	hwvalad3604	Linux	WebLogic10.3, JROCKIT-JDK 1.6.0	(blank)
				1: WEB (Oracle HTTP server)	hwvalad3593	Linux	(blank)	(blank)
				1: WEB (Siebel)	hwvalwd3592	Linux	Oracle WebTier	(blank)
				1: WEB/APP (OBIEE (DAC/INF) WEB, Informatica APP)	hwvalad3595	Linux	Informatica 9.1.0, Informatica DAC	(blank)
				2: APP (BI)	hwvalad3602	Linux	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle_BI	(blank)
				2: APP (DAC/INF client)	hwvanad3591	Windows	DAC	(blank)
				2: APP (OID)	hwvalad3572	Linux	Oracle Fusion Middleware 11.1.1	(blank)
				2: APP (OSB)	hwvalad3598-3599	Linux	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle_OSB	(blank)
				2: APP (Siebel Gateway)	hwvalad3596	Linux	Gateway Server	(blank)
				2: APP (Siebel tools/documents)	hwvanad3021	Windows	(blank)	(blank)
				2: APP (Siebel)	hwvalad3597	Linux	Siebel Server	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP (SOA BAM)	hwvalad3618	Linux	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle_SOA	(blank)
				2: APP (SOA)	hwvalad3600-3601	Linux	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle_SOA	(blank)
				3: DB (BI)	hwvaldd3608	Linux	OBIEE	(HEDOBID\)
				3: DB (Informatica)	hwvaldd3609	Linux	(blank)	(HEDINFD\)
				3: DB (LEAP DW)	hwvaldd3669	Linux	(blank)	(P278DW D\)
				3: DB (LEAP)	hwvaldd3610	Linux	(blank)	(P278DEV\)
				3: DB (OID)	hwvaldd3582	Linux	(blank)	(P278OID D\)
				3: DB (OSB)	hwvaldd3606	Linux	(blank)	(HEDOSB D\)
				3: DB (Siebel)	hwvaldd3605	Linux	(blank)	(P278SIED\)
			3: TEST	3: DB (SOA)	hwvaldd3607	Linux	(blank)	(FHASOA D\)
				1: WEB (OBIEE (DAC/INF) client)	hwvanat3739	Windows	DAC	(blank)
				1: WEB (Oracle HTTP server)	hwvalwt3642-3643	Linux	OSB, OBIEE WebTier, WebAPPS	(blank)
				1: WEB (Siebel)	hwvalwt3638-3639	Linux	Oracle WebTier	(blank)
				1: WEB/APP (OBIEE (DAC/INF) WEB, Informatica APP)	hwvalat3644	Linux	Informatica DAC, Informatica 9.1.0	(blank)
				2: APP	hwvalat3655-3656	Linux	WebLogic 10.3, JROCKIT-JDK 1.6.0	(blank)
				2: APP (BI)	hwvalat3653-3654	Linux	WebLogic 10.3, JROCKIT-JDK	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							K 1.6.0, Oracle BI	
				2: APP (OID)	hwvalat3793	Linux	(blank)	(blank)
				2: APP (OSB)	hwvalat3648-3649	Linux	WebLogic 10.3, JROCKIT-JD K 1.6.0, OSB	(blank)
				2: APP (Siebel Gateway)	hwvalat3645	Linux		(blank)
				2: APP (Siebel tools/documents)	hwvanat3740	Windows	(blank)	(blank)
				2: APP (Siebel)	hwvalat3646-3647	Linux	Siebel Server	(blank)
				2: APP (SOA BAM)	hwvalat3652	Linux	WebLogic 10.3, JROCKIT-JD K 1.6.0, Oracle SOA	(blank)
				2: APP (SOA)	hwvalat3650-3651	Linux	WebLogic 10.3, JROCKIT-JD K 1.6.0, Oracle SOA	(blank)
				3: DB (BI)	hwvaldt3632-3633	Linux	OBIEE	P287BIT
				3: DB (Informatica)	hwvaldt3634-3635	Linux	(blank)	P287INT
				3: DB (LEAP DW)	hwvaldt3796-3797	Linux	(blank)	P278OIDT
				3: DB (LEAP)	hwvaldt3636-3637	Linux	(blank)	P278TEST
				3: DB (OID with ODSM)	hwvaldt3864-3865	Linux	(blank)	P278OIDT
				3: DB (OID)	hwvaldt3794	Linux	(blank)	P278OIDT
				3: DB (OSB)	hwvaldt3628-3629	Linux	(blank)	P287SBT
				3: DB (Siebel)	hwvaldt3626-3627	Linux	(blank)	P278SIET
				3: DB (SOA)	hwvaldt3630-3631	Linux	(blank)	p287FST
LETS	OGC	33	1: PROD	1: WEB/APP /DB	hudSharePoint.hud.gov	Windows 2008	SharePoint 2010	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
			2: DEV/TEST	1: WEB/APP/DB	hudspdev.hud.gov	Windows 2008	SharePoint 2010	(blank)
LOCCS (A67)	OCFO	21700	1: PROD	1: WEB	hudatwork	Windows 2003	LOCCS-Web, ColdFusion 5, Java 6 SE	(blank)
				2: APP	hudapps1.hud.gov	Solaris 5.10	eLOCCS, ColdFusion 7, Java 6 SE	(blank)
				2: APP/DB	System 2	Unisys OS2200	LOCCS, RDMS 2200, DMS 2200,	(A67\)
				3: DB	hwvaldp3532	Linux	Oracle 11g	(A67PROD\)
			2: DEV	2: APP	atsloccs	Windows 2003	ColdFusion 5, Java 6 SE	(blank)
				3: DB	hwvaldd3451	Linux	Oracle 11g	(A67DEV\)
			2: DEV/TEST	2: APP/DB	System 3	Unisys OS2200	eLOCCS, COBOL, RDMS 2200, DMS 2200,	(D67\)
			3: TEST	1: WEB	hudwebtest1	Windows 2003	LOCCS-Web, ColdFusion 5, Java 6 SE	(blank)
				2: APP	hwvauwd233	Solaris 5.10	eLOCCS, ColdFusion 7, Java 6 SE	(blank)
				3: DB	hwvaldt3508	Linux	Oracle 11g	(A67UA)
LR2000 (H09)	ODOC	(blank)	1: PROD	3: DB	hlanndp026	Windows 2003	PowerBuilder 12, MY SQL 2000	(blank)
			3: TEST	3: DB	hdrfndd003	Windows 2008	PowerBuilder 12	(blank)
M2M (F24B)	Multi-Family Housing	138/3046	1: PROD	1: WEB/APP	hudapps.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5, M2M 7.3.4	(blank)
					hudapps2.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5, M2M 7.3.4	(blank)
				3: DB	nthccp08	Windows 2008	Sybase ASE 15.7	(HEREMS\107GB)
			2: DEV	3: DB	hwvaldd3380	Linux 6.0	Oracle 11g	(F24BDEV\)
					hwvandd1028	Windows 2008	Sybase ASE 15.7	(HEREMS_m2m_DEVI\27GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
			2: DEV/TEST	1: WEB/APP	hwvalwd1907	Linux 6.4	M2M v7.3.4, ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
			3: TEST	3: DB	hwvandt1027	Windows 2008	Sybase ASE 15.7	(HEREMS\107GB)
MDDR (P057)	Housing	400	1: PROD	1: WEB/APP	hudapps.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
					hudapps2.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
				3: DB	nthccp08	Windows 2008	Sybase ASE 15.7	(HEREMS\107GB)
			2: DEV	3: DB	hwvandt1028	Windows 2008	Sybase ASE 15.7	(HEREMS - mddr_DEV1, v07rs\27GB)
			2: DEV/TEST	1: WEB/APP	hwvalwd1907	Linux 6.4	M2M v7.3.4, ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
			3: TEST	3: DB	hwvandt1027	Windows 2008	Sybase ASE 15.7	(HEREMS\107GB)
MFDCS (F97)	MultiFamily Housing	(blank)	2: DEV	3: DB	hwvandt1033	Windows 2008	Sybase ASE 15.7	(HEREMS\127GB)
			3: TEST	3: DB	hwvaldt3457	Linux 6.0	Oracle 11g	(iREMSUAT\)
MFHAUS (P280)	MultiFamily Housing	(blank)	1: PROD	3: DB	hwvaldp3475	Linux 6.0	Oracle 11g	(P280PROD\12GB)
			2: DEV	2: APP	hwvalad3585	Linux 6.0	WebLogic 10.3.6	(blank)
				3: DB	hwvaldd3448	Linux 6.0	Oracle 11g	(P280DEV\, P280IDC\, P280TST\12GB)
MFOracl eRS	MultiFamily Housing	(blank)	1: PROD	1: WEB/APP (for iBFM/iREMS Reports)	hwvalwp1908-1911	Linux	MicroStrategy BI suite 9.3	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP (Enterprise Mgr)	hwvanap1919	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Mobile Server)	hwvanap1920	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Narrow Cast Server)	hwvanap1922	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Terminal Server)	hwvanap1921	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaldp3460	Linux 6.0	Oracle 11g	(MFRPTP RD\90GB)
				3: DB (Enterprise Manager for iBFM/iREMS)	hwvaldp1918	Linux	MicroStrategy BI Suite 9.3	(blank)
				3: DB (Meta Data for iBFM/iREMS)	hwvaldp1916-1917	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI for iBFM/iREMS)	hwvalap1912-1915	Linux	MicroStrategy BI suite 9.3	(blank)
			2: DEV	1: WEB/APP (for iBFM/iREMS Reports)	hwvalwd1923-1924	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Enterprise Mgr for iBFM/iREMS)	hwvanad1929	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Mobile Server for iBFM/iREMS)	hwvanad1930	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Terminal Server for iBFM/iREMS)	hwvanad1931	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaldd3381	Linux 6.0	Oracle 11g	(MFRPTD EV\, MFRPTTS T\ 90GB)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				3: DB (Enterprise Manager for iBFM/iREMS)	hwvaldd1928	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB (Meta Data for iBFM/iREMS)	hwvaldd1927	Linux 6.4	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI for iBFM/iREMS)	hwvalad1925-1926	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Narrow Cast for iBFM/iREMS)	hwvanad1932	Windows 2008	MicroStrategy BI suite 9.3	(blank)
			3: TEST	2: APP (Enterprise Mgr for iBFM/iREMS)	hwvanat1939	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Mobile Server for iBFM/iREMS)	hwvanat1940	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Terminal Server for iBFM/iREMS)	hwvanat1941	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				3: DB	hwvaldt3458	Linux 6.0	Oracle 11g	(MFRPTIN T\ 90GB)
				3: DB (Enterprise Manager for iBFM/iREMS)	hwvaldt1938	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB (Meta Data for iBFM/iREMS)	hwvaldt1937	Linux 6.4	MicroStrategy BI suite 9.3	(blank)
				2: APP (Narrow Cast for iBFM/iREMS)	hwvanat1942	Windows 2008	MicroStrategy BI suite 9.3	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				1: WEB/APP (BI for iBFM/iREMS Reports)	hwvalwt1933-1934	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI for iBFM/iREMS Reports)	hwvalat1935-1936	Linux	MicroStrategy BI suite 9.3	(blank)
MFSybaseRS	MultiFamily Housing	(blank)	1: PROD	3: DB	huddw.hud.gov	Solaris 10	Sybase ASE 15.7	(Herems\50GB, rems_dmart\12GB)
			2: DEV/TEST	3: DB	hwvaud1066	Solaris 10	Sybase ASE 15.7	(Herems\50GB, rems_dmart\12GB)
MSCS2 (P072)	OCHCO	(blank)	1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	Lotus Notes 6.5	(blank)
MSTR (P255)	OCIO	37000	1: PROD	1: WEB/APP	hwvalwp1908-1911	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI Server)	hwvalap1912-1915	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Enterprise Mgr)	hwvanap1922	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Mobile Server)	hwvanap1920	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Narrow Cast Server)	hwvanap1919	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Terminal Server)	hwvanap1921	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				3: DB (Enterprise Manager)	hwvaldp1918	Linux	MicroStrategy BI Suite 9.3	(blank)
				3: DB (Meta Data Server)	hwvaldp1916-1917	Linux	MicroStrategy BI suite 9.3	(blank)
			2: DEV	1: WEB (User Manager)	hwvalwd4284	Linux	MicroStrategy BI suite 9.3	(blank)
				1: WEB/APP	hwvalwd1923-1924	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Admin Terminal)	hwvanad1307	Windows		(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					hwvanad4167	Windows		(blank)
					hwvanad4168	Windows		(blank)
				2: APP (BI Server for PIH)	hwvalad4283	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI Server)	hwvalad1925-1926	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Enterprise Mgr)	hwvanad1929	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Mobile Server)	hwvanad1930	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (Narrow Cast)	hwvanad1932	Windows 2008		(blank)
				2: APP (Terminal for PIH)	hwvanad1941	Windows		(blank)
				2: APP (Terminal Server)	hwvanad1931	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP (User Manager for PIH)	hwvalad4212	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB (Enterprise Manager)	hwvaldd1928	Linux	MicroStrategy BI suite 9.3	(C38GPRD \, C38GRPT\ 50GB)
				3: DB (Meta Data for PIH)	hwvaldd3258	Linux		(blank)
				3: DB (Meta Data Server)	hwvaldd1927	Linux 6.4	MicroStrategy BI suite 9.3	(blank)
			3: TEST	1: WEB/APP	hwvalwt1933-1934	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI Server)	hwvalat1935-1936	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Enterprise Mgr)	hwvalat1939	Linux		(blank)
				2: APP (Mobile Server)	hwvalat1940	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Narrow Cast)	hwvalat1942	Linux		(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP (Terminal)	hwvalat1941	Linux		(blank)
				3: DB (Enterprise Manager)	hwvalat1938	Linux		(blank)
				3: DB (Meta Data)	hwvalat1937	Linux		(blank)
			4:Pilot	1: WEB/APP	hwvalwd4243	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (BI Server)	hwvalad3564	Linux	MicroStrategy BI suite 9.3	(blank)
				3: DB (Meta Data)	hwvaldd3573	Linux		(blank)
NGMS (P284)	PIH	1571	1: PROD	2: APP	hqvalad3516-3517	Linux 6	Hyperion 11.2	(blank)
				2: APP/DB (OLAP)	hqvalad3518	Linux 6	Hyperion EssBase	(blank)
				3: DB (Data Validation)	hqvalad3178	Linux 6	Oracle 11g	(\32GB)
				3: DB (Meta Data)	hqvalad3519	Linux 6	Oracle 11g	(\32GB)
			2: DEV	2: APP	hqvalad3384-3385	Linux 6	Hyperion 11.2	(blank)
				2: APP/DB (OLAP)	hqvalad3392	Linux 6	Hyperion EssBase	(blank)
				3: DB (Data Validation)	hqvalad3165	Linux 6	Oracle 11g	(\32GB)
				3: DB (Meta Data)	hqvalad3389	Linux 6	Oracle 11g	(\32GB)
			3: TEST	2: APP	hqvalad3386	Linux 6	Hyperion 11.2	(blank)
					hqvalad3393	Linux 6	Hyperion 11.2	(blank)
				2: APP/DB (OLAP)	hqvalad3387	Linux 6	Hyperion EssBase	(blank)
				3: DB (Data Validation)	hqvalad3390	Linux 6	Oracle 11g	(\32GB)
				3: DB (Meta Data)	hqvalad3391	Linux 6	Oracle 11g	(\32GB)
OGC-E DMS (V04)	OGC	478	1: PROD	1: WEB/APP / DB	hudSharePoint.hud.gov	Windows 2008	SharePoint 2010, InfoPath 2010, MS SQL Server	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
			2: DEV/TEST	1: WEB/APP / DB	hudspdev.hud.gov	Windows 2008	SharePoint 2010, InfoPath 2007, MS SQL Server	(blank)
				2: APP	ediscovery.hud.gov	Windows	EMC Source Once, e-Discovery tool, Kazeon	(blank)
OGC-ET S (P195)	OGC	700	1: PROD	2: APP	hwvauap356	Solaris 10	GlassFish 2	(blank)
				3: DB	hwvaudp1093	Solaris 10	Oracle SQL Developer, Oracle 11g EE-64bit	(OGCETS P\ 4.0GB)
			2: DEV	2: APP	hwvauad088	Solaris 10	MyEclipse 5.5.1GA, GlassFish 2	(blank)
				3: DB	hwvaudd1092	Solaris 10	Oracle SQL Developer, Oracle 11g EE-64bit	(OGCETS D\, OGCETST R\)
PARIS (P202)	PD&R	25	1: PROD	3: DB	hwvaldp1872	Linux 5	SQL Developer, Serena Dimensions, Oracle	(\236.5 GB)
				1: PROD/DEV	hwvanap1331	Windows 2008	SAS BI Suite	(blank)
			2: DEV	1: WEB	nthhqdl115	Windows 2003	ODBiC (DEV tool)	(\4GB)
				3: DB	hwvaldd2079	Linux 5	SQL Developer, Serena Dimensions, Oracle	(\236.5 GB)
PAS (A96)	OCFO	55	1: PROD	2: APP/DB	System 2	Unisys OS2200	COBOL, MAPPER, DMS	(A96\)
			2: DEV	2: APP/DB	System 3	Unisys OS2200	COBOL, MAPPER, DMS 2200	(A96\)
PBC-eCase (P148)	OCFO	272	1: PROD	1: WEB/APP	ctsp.hud.gov	Windows 2008	.NET/.IIS 7.5, MS SQL Server 2008	(blank)
	(blank)	55	1: PROD	2: APP/DB	ecasedb-01	Windows 2008	.NET/.IIS 7.5, MS SQL Server 2008	(ECASED B-01\)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
PBC-Notes-Legacy (P148)	OCFO	272	1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	Lotus Notes 6.5	(pbc tracking.nsf \169MB, pbc archive.nsf \352MB)
			2: DEV	2: APP/DB	DSYS	IBM Z/OS 1.13	Lotus Notes 6.5	(pbc tracking.nsf \20MB, pbc archive.nsf \20MB)
			3: TEST	2: APP/DB	YSYS	IBM Z/OS 1.13	Lotus Notes 6.5	(pbc tracking.nsf \17MB, pbc archive.nsf \22MB)
PHAPlans (P174)	PIH	100	1: PROD/DEV/TEST	URL	hudSharePoint.hud.gov	Windows 2008	(blank)	(blank)
PSCRS (A75I)	OCFO	12	1: PROD	1: WEB/APP	hwvanwp1258	Windows 2003	.Net v4	(blank)
				3: DB	hwvaldp3534	Linux	Oracle 11g	(A75IPROD\126 GB)
			2: DEV	1: WEB/APP	hwvanad1263	Windows 2003	.NET	(blank)
				3: DB	hwvaldd3510	Linux	Oracle 11g	(A75IDEV\37GB)
QDLS (F51Q)	Housing	(blank)	1: PROD/DEV/TEST	2: APP	SharePoint	Windows 2008	SharePoint	(blank)
REAC (F89A)	PIH	90000	1: PROD	1: WEB	hlannwp001-005	Windows 2003	.NET/.IIS	(blank)
					hwvanat1617	Windows 2003	.NET/.IIS, MS SQL 2000 client, Oracle 11GR2 client, MicroStrategy 9.3 client	(blank)
					hwvanwp3242	Windows 2008	.NET/.IIS	(blank)
					hwvanwp3611-3615	Windows 2008	.NET/.IIS	(blank)
					hpaduap031	Solaris 5.10	WebSQL	(blank)
					hwvalap2025-2026	Linux 6.4	WebLogic 10.3	(blank)
					hwvalwp1908-1911	Linux	MicroStrategy BI suite 9.3	(blank)
					hwvalwp191	Linux	MicroStrategy	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					2-1915		y BI suite 9.3	
					hwvauap1124-1125	Solaris 10	GlassFish 2.1	(blank)
					hwvauap2044-2047	Solaris	ColdFusion9	(blank)
					hwvauap2078	Solaris	ColdFusion9	(blank)
					hwvauap409	Solaris 5.10	WebSQL	(blank)
					hwvauap606	Solaris 10	GlassFish 2.1	(blank)
					nthhqd150	Windows 2003	BizFlow 11	(blank)
				2: APP (Batch)	HSYS	IBM Z/OS 1.13	FTP,	(blank)
					hwvanap1641	Windows 2008	Winzip 14, Informatica PowerCenter 8.6.1, MS SQL Server 2005 client, Oracle 11GR2 client, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 Build 22	(blank)
					hwvanap348	Windows 2008	FTP, MS SQL 2005 client, Oracle 11GR2 client, Sybase ASE 15.7 client, MS office 2010, SSH Tectia client 4.2.0 Build 22, Winzip 14, VBS	(blank)
					System 2	Unisys OS2200	FTP	(blank)
				2: APP (deployment)	hwvanap1817	Windows 2008	MS SQL Server 2005 client, Oracle 11GR2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							build 22, Winzip 14	
					hwvanap1818	Windows 2008	MS SQL Server 2005 client, Oracle 11GR2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 build 22, Winzip 14	(blank)
				2: APP (I&A)	hwvanap306	Windows	SiteMinder 12.5	(blank)
				2: APP (Terminal Server)	hwvanap1921	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				3: DB	hlanndp001	Windows 2003	MS SQL Server 2005	(blank)
					hwvaldp1916-1917	Linux	Oracle 11GR2	(blank)
					hwvaldp196	Linux 6.4	Oracle 11GR2 (RAC)	(blank)
					hwvaldp213	Linux 6.4	Oracle 11GR2 (RAC)	(blank)
					hwvaldp3050	Linux 6.4	Oracle 11GR2 (RAC)	(blank)
					hwvaldp3066	Linux 6.4	Oracle 11GR2 (RAC)	(blank)
					hwvandp3295	Windows 2008	Sybase ASE 15.0.3	(blank)
					hwvandp3661	Windows 2008	MS SQL Server 2005	(blank)
					hwvandt265	Windows 2003	MS SQL Server 2000	(blank)
					hwvaudp285	Solaris 5.10	Oracle 11GR2	(blank)
					nthhqp16	Windows 2008	Sybase ASE 15.7	(blank)
				3: DB (Batch)	hlanndp020	Windows 2008	VBS, Sybase ASE 15.7	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							client, Sybase ASE 15.7, Winzip 14	
					hwvaudp3253	Solaris 5.10	Informatica PowerCenter 8.6.1, Sybase ASE 15.7, Oracle 11GR2 client	(blank)
					nthccp08	Windows 2008	Winzip 14 w, FTP, Sybase ASE 15.7	(blank)
			1: PROD/TEST	2: APP (deployment)	hwvanap3163	Windows 2008	MS SQL Server 2005 client, Oracle 11GR2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 build 22, Winzip 14	(blank)
			2: DEV	1: WEB	hwvanwd3034 hwvanwd3526	Windows 2008	.NET/.IIS	(blank)
					hwvanwt1260	Windows 2003	.NET/.IIS	(blank)
				2: APP	hwvalad1889	Linux 6.4	ColdFusion 9	(blank)
					hwvalad2008	Linux 6.4	ColdFusion 9	(blank)
					hwvalad2021-2022	Linux 6.4	WebLogic 10.3	(blank)
					hwvandt277	Windows	BizFlow 11, WebLogic	(blank)
					hwvauad427	Solaris 5.10	WebSQL	(blank)
					hwvauad432	Solaris 5.10	WebSQL	(blank)
					hwvauad948	Solaris 5.10	GlassFish 2.1	(blank)
				2: APP (Batch)	hwvanap932	Windows 2008	FTP, MS SQL Server 2005 Client, Oracle 11GR2 Client, Sybase ASE	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							15.7 client, MS Office 2010, SSH Tectia client 4.2.0 build 22, Winzip 14, VBS,	
					hwvaudd1334	Solaris 5.10	Informatica PowerCenter 8.6.2, Sybase ASE 15.7, Oracle 11gr2 client	(blank)
				2: APP (Report Server)	hwvalwd1923-1924	Linux	MicroStrategy BI suite 9.3	(blank)
					hwvalwd1925-1926	Linux	MicroStrategy BI suite 9.3	(blank)
				2: APP (Terminal Server)	hwvanad1931	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP/DB (Batch)	hlanndd015	Windows 2008	Winzip 14, Sybase ASE 15.7, FTP	(blank)
				3: DB	hlanndd016	Windows 2008	Sybase ASE 15.7, FTP	(blank)
					hwvaldd1927	Linux 6.4	Oracle 11GR2	(blank)
					hwvaldd3051	Linux 6.4	Oracle 11GR2	(blank)
					hwvaldd3481	Linux 6.4	Oracle 11GR2	(blank)
					hwvandd1016	Windows 2003	MS SQL Server 2000	(blank)
					hwvandd3529	Windows 2008	MS SQL Server 2005	(blank)
					hwvandd3764			
					hwvandd985	Windows 2003	MS SQL Server 2005	(blank)
			2: DEV/TEST	2: APP	hwvauad1126	Solaris 10	GlassFish 2.1.1, JROCKIT-JDK 1.6	(blank)
					hwvauad1127	Solaris 10	GlassFish 2.1.1, JROCKIT-JDK 1.6	(blank)
				2: APP (I&A)	hwvauad426	Solaris 5.10	LDAP	(blank)
				3: DB	hdrfndd004	Windows 2003	MS SQL Server 2000	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
			3: TEST	1: WEB	hwvauwd233	Solaris 5.10	Sybase ASE 15.7	(blank)
					hwvanad3160	Windows 2008	.NET/.IIS	(blank)
					hwvanwt3525	Windows 2008	.NET/.IIS	(blank)
					nthhqd147	Windows 2003	.NET/.IIS	(blank)
				2: APP	hwvalad2005-2006	Linux 6.4	ColdFusion9	(blank)
					hwvalat1935-1936	Linux	MicroStrategy BI suite 9.3	(blank)
					hwvalat2023-2024	Linux 6.4	WebLogic 10.3	(blank)
					hwvalwt1933-1934	Linux	MicroStrategy BI suite 9.3	(blank)
					hwvandp577	Windows 2003	BizFlow 11	(blank)
					hwvauad429	Solaris 5.10	WebSQL	(blank)
					hwvauad948	Solaris 5.10	GlassFish 2.1	(blank)
				2: APP (Batch)	hwvanad464	Windows	Autosys	(blank)
					hwvanap933	Windows 2008	FTP, MS SQL Server 2005 client, Oracle 11gr1 client, Sybase ASE 15.7 client, MS Office 2010, SSH Tectia client 4.2.0 Build 22, Winzip 14, VBS	(blank)
					hwvaudd590	Solaris 5.10	Informatica PowerCenter 8.6.1, Sybase ASE 15.7, Oracle 11g r2 client	(blank)
					System 3	Unisys OS2200	FTP	(blank)
					YSYS	IBM Z/OS 1.13	FTP	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP (deployment)	hwvanap1817	Windows 2008	MS SQL Server 2005 client, Oracle 11gr2 client, Serena Dimensions 2009 r2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 Build 22, Winzip 14	(blank)
					hwvanap1818	Windows 2008	MS SQL Server 2005 client, Oracle 11GR2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 build 22, Winzip 14	(blank)
				2: APP (Terminal Server for iBFM/iREMS)	hwvanat1941	Windows 2008	MicroStrategy BI suite 9.3	(blank)
				2: APP/DB (Batch)	hwvandd1017	Windows 2008	Sybase ASE 15.7, Winzip 14, FTP	(blank)
					hwvandd1029	Windows 2008	VBS. Sybase ASE 15.7, Sybase ASE 15.7 client, Winzip 14	(blank)
				2: APP/I&A	hwvaurd231 hwvaurd253	Solaris	SiteMinder 12.5, Active Directory	(blank)
				3: DB	hwvaldd3256	Linux 6.4	Oracle 11gr2	(blank)
					hwvaldd3257	Linux	Oracle 11GR2	(blank)
					hwvaldd3482	Linux 6.4	Oracle 11gr2	(blank)
					hwvaldt1937	Linux 6.4	Oracle 11gr2	(blank)
					hwvandd582	Windows 2003	MS SQL Server 2005	(blank)
					hwvandd916	Windows	MS SQL	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
						2003	Server 2000	
					hwvandt3660	Windows 2008	MS SQL Server 2005	(blank)
					hwvanwt3765	Windows 2008	MS SQL Server 2005	(blank)
SAMS (A80S)	Single Family Housing	347	1: PROD	2: APP/DB	HSYS	IBM Z/OS 1.13	SAMS, DB2	(blank)
			2: DEV	2: APP/DB	DSYS	IBM Z/OS 1.13	SAMS, DB2	(blank)
SF-182	Housing		1: PROD/DEV	1: WEB/APP / DB	SharePoint	Windows 2008	InfoPath Designer 2010, SharePoint Designer 2010, web/app/db: OCIO SharePoint EE--SharePoint 2010	(blank)
SFDMS (F42D)	Single Family Housing	2	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				2: APP/DB	System 2	Unisys OS2200	COBOL Bulk File Transfer Utility, network systems, NETEX, DEPCON, COMPlus, UNIACCESS, ECL RDBMS	(PU08*F42 DEFAULT \)
			2: DEV	2: APP (FHA Connection)	hwvaldd3234	Linux 6.4	ColdFusion 9	(blank)
				2: APP/DB	System 3	Unisys OS2200	COBOL Bulk File Transfer Utility, Network Systems, NETwork Executive (NETEX), DEPCON, CMPlus, UNIACCESS, ETL; IPF, UTIL, EXEC,	(PU08*F42 DEFAULT \)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							DMP	
SFHB (P83)	Single Family Housing	(blank)	1: PROD/TEST	1: WEB/APP	hwvanwt1300	Windows 2003	ASP/.NET/.IIS 6.0, MS SQL Server 2005, MS SQL management studio	(\127.75GB)
			2: DEV	1: WEB/APP	hwvanwd1299	Windows 2003	ASP/.NET/.IIS 6.0, MS SQL Server 2005, MS SQL management studio	(\127.75MB)
SFHEDW (D64A)	Single Family Housing	436	1: PROD	1: WEB	hudatwork	Windows 2003	Coldfusion 5, SFDW web page	(blank)
				2: APP/DB	hwvaudp1311	Solaris 10	Sybase IQ 15.2, Sybase ASE 15.7	(SFDW\4.3 TB + 128GB MEM)
			2: DEV	2: APP	hhhqnwd002	Windows	ColdFusion 5	(blank)
				2: APP/DB	hwvaudd1337	Solaris 10	Sybase IQ 15.2, Sybase ASE 15.7	(SFDW\4.3 TB + 128GB MEM)
SFIS (A43)	Single Family Housing	727	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				2: APP/DB	hudwebapps8	Windows	ASP/.NET/.IIS 6.0, MS SQL Server	(blank)
				3: DB	HSYS	IBM Z/OS 1.13	BMC, Spufi, IMS, GHS#, DB2	(A43P001\200K cylinders)
			2: DEV	2: APP/DB	hhhqnwd002	Windows	ASP/.NET/.IIS 6.0, MS SQL Server	(blank)
				3: DB	DSYS	IBM Z/OS 1.13	BMC, Spufi, IMS, DB2	(GHAA\$.*(A43TH002.*\100,000 cylinders)
			2: DEV/TEST	1: WEB	hwvalwd1868	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
			3: TEST	2: APP/DB	hwvanwt1784	Windows	ASP/.NET/.IIS 6.0, MS	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							SQL Server	
				3: DB	YSYS	IBM Z/OS 1.13	BMC, Spufi, IMS (GHS#.) DB2	(A43P001\ 200K cylinders)
SFNW (A80W)	Single Family Housing	21058	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				3: DB	hwvauddp1311	Solaris 10	Sybase ASE 15.7	(blank)
					hwvauddp458	Solaris	Sybase Central, Interactive SQL, ASE 15.0.3	(SFDW\920GB)
			2: DEV	1: WEB/APP	hwvalwd1868	Linux 6.5	ColdFusion 9	(blank)
				3: DB	hwvaudd1024	Solaris	Sybase Central, Interactive SQL, Sybase ASE 15.0.3	(SFDW\920GB)
					hwvaudd1337	Solaris 10	Sybase IQ 15.2, Sybase ASE 15.7	(SFDW\)
SFPCS-P (A80B)	Single Family Housing	5427	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				2: APP	hlanndp011(for FHAC & Pay.gov)	Windows	Java	(blank)
					hlannfp018	Windows 2003	drive Remlan01	(blank)
					hlannfp019	Windows 2003	H,I,G, Drive ORG, OAS, USER1	(blank)
					hlannrp003	Windows	DEPCON report repository	(blank)
					hwvanrp568	Windows	Sybase Direct Connect v12	(blank)
					hwvauap386	Solaris 10	Shell Script for SFTP	(blank)
					hwvauap438	Solaris	Web FTP, replication server.	(blank)
					hwvauap516	Solaris	Cold Fusion, HTML, Java, FHAC	(blank)
					hwvauddp1192	Solaris	Cold Fusion, HTML, Java, FHAC	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP/DB	HSYS	IBM Z/OS 1.13	CICSTS 4.1, SAS 9.1.3, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(\480.7 TB)
			2: DEV	1: WEB/APP	hlanrnp021	Windows 2008	SFTP, Serena Dimensions, lan sw repository	(blank)
				2: APP	hlanrnr003	Windows 2003	DEPCON report repository	(blank)
					hwvalwd1868	Linux 6.5	FHAC Development servers, ColdFusion 9, HTML, Java	(blank)
					hwvalwd3231	Linux 6.5	FHAC Development servers, ColdFusion 9, HTML, Java	(blank)
					hwvanrd564	Windows	Sybase Direct Connect v12, Sybase/SAP 15.5	(blank)
					hwvauat461	Solaris	Shell Script for SFTP	(blank)
				2: APP/DB	DSYS	IBM Z/OS 1.13	CICSTS 4.1, SAS 9.1.3, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(\12.6GB)
			3: TEST	2: APP	hwvalwt3447	Linux	HUD TEST Center	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP/DB	YSYS	IBM Z/OS 1.13	CICSTS 4.1, SAS 9.1.3, ISPF 6.3, JES2, MVS/Data Facility/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(480.7 TB)
SFPCS-U (A80R)	Single Family Housing	16595	1: PROD	1: WEB/APP	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				2: APP	hlanndp011(for FHAC & Pay.gov)	Windows	Java	(blank)
					hlanrnp003	Windows	DEPCON report repository	(blank)
					hwvauap386	Solaris 10	Shell Script for SFTP	(blank)
				2: APP/DB	HSYS	IBM Z/OS 1.13	CICSTS3.1, SAS 9.1.3 SP4, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(NOMAD\ 53.5 TB)
			2: DEV	1: WEB/APP	hlanrnp021	Windows 2008	SFTP, Serena Dimensions, lan sw repository	(blank)
					hwvalwd1868	Linux 6.5	FHAC Development servers, ColdFusion 9, HTML, Java	(blank)
					hwvalwd3231	Linux 6.5	FHAC Development servers, ColdFusion 9, HTML, Java	(blank)
				2: APP	hlanrnp003	Windows 2003	DEPCON report	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
							repository	
					hwvauat461	Solaris	Shell Script for SFTP	(blank)
				2: APP/DB	DSYS	IBM Z/OS 1.13	CICSTS3.1, SAS 9.1.3 SP4, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, advantage gem c;oem t top; v6.0, encyclopedia 6.5, RD 4GL NOMAD, DB2 v8, DB2 Universal DB for Z platform	(\1.6GB)
			3: TEST	2: APP	hwvalwt3447	Linux	HUD TEST Center	(blank)
				2: APP/DB	YSYS	IBM Z/OS 1.13	CICSTS 3.1, SAS 9.1.3 SP4, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, advantage gem c;oemt top; v6.0, encyclopedia 6.5, RD 4GL NOMAD, DB2 v8, DB2 Universal DB for Z platform	(\53.4GB)
SharePoint (D100)	OCIO	unlimited	1: PROD	1: WEB	elaknwpv003-005	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
					elannwpv003-005	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP	elaknapv007	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					elannapv009	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP (Index server)	elaknapv004	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP (project, Excel Service)	elaknapv006	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP (Cube, sql analytic server)	elaknapv005	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360, MS SQL Server 2008	(blank)
					elannapv007	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360, MS SQL Server 2008	(blank)
				2: APP (Index server)	elannapv006	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP (project, Excel Service)	elannapv008	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				3: DB	elakndpv002	Windows 2008	MS SQL Server 2008	(blank)
					elanndpp009-010	Windows 2008	MS SQL Server 2008	(blank)
				3: DB (standby and archive)	elaknbpv001	Windows 2008	MS SQL Server 2008, DOCAve Manager	(blank)
					elannbpv001	Windows 2008	MS SQL Server 2008, DOCAve Manager	(blank)
			2: DEV	1: WEB	tlannwtv003	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP	tlannatv007	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				3: DB	tlannndtv003	Windows 2008	MS SQL Server 2008	(blank)
			3: TEST	1: WEB	tlannwtv004	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				2: APP	tlannatv006	Windows 2008	SharePoint 2010, Project Server 2010, UMT 360	(blank)
				3: DB	tlannndtv004	Windows 2008	MS SQL Server 2008	(blank)
STraCAT (P274R)	CP&D	public portal	1: PROD	1: WEB/APP	portal.hud.gov		portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/stracat/stracat (STRACAT_REL_1.4)	(blank)
TDLS (A62)	OCHCO	9918	1: PROD	2: APP/DB	hlanndp019	Windows 2008	MS SQL Server 2000	(A62_PROD\250MB)
			2: DEV	3: DB	hdrndd002	Windows 2003	MS SQL Server 2000	(A62_DEV\250MB)
			3: TEST	3: DB	hdrndd003	Windows 2003	MS SQL Server 2000	(A62_TEST\250MB)
Team (D91A)	OCFO, office of budget	8100	1: PROD	2: APP	hwvauap357	Solaris 5.10	Team 7.0	(blank)
				3: DB	hwvaldp3499	Linux 6.5	Oracle 11g	(D91A_PROD\, TEAMPROD\)
			2: DEV	2: APP	hwvauad089	Solaris 5.10	Oracle 10g, JCreator LE, CVSNT 2.0.58d, Tortoise CVS 1.8.11, Sun ONE 8, SQL Developer, Java 1.5 JROCKIT-JDK, Java 1.5 JRE, Netbeans 4.1 IDE	(blank)
				3: DB	hwvaldd3480	Linux 6.5	Oracle 11g	(TEAMDEV\, TEAMTST\,

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
								TEAMTR N\)
			3: TEST	2: APP (FTP Extract)	hhhqnrd001	Windows 2003	(blank)	(blank)
TEAPO TS (E08A)	Fair Housing & Equal Opportunity	1400	1: PROD/DEV/TEST	2: APP	hwvaldp3014	Linux	report server	(blank)
TIIS (F72)	Housing	40	1: PROD	1: WEB	entp.hud.gov	Linux 6.5	ColdFusion 9, Java, HTML, ASP	(blank)
				3: DB	HSYS	IBM Z/OS 1.13	MBC, Spufi, IMS, GHAT#.GHAT, DB2	(F72p001\13K cylinders)
			2: DEV	3: DB	DSYS	IBM Z/OS 1.13	MBC, Spufi, IMS, DB2	(GHAT#.GHAT, F72D001\13K cylinders)
			2: DEV/TEST	1: WEB/APP	hwvalwd1868	Linux 6.5	ColdFusion 9, Java, HTML	(blank)
			3: TEST	3: DB	YSYS	IBM Z/OS 1.13	MBC, Spufi, IMS, DB2	(GHAD\$*, F72D001\13K cylinders)
TITLE V (C38I)	CP&D	15	1: PROD	1: WEB/APP	hwvauap194	Solaris	Sun ONE J2EE 5.2 Java	(blank)
				3: DB	hwvaudp192	Solaris	Oracle 11g, OLTP	(C38iPROD\100MB)
			2: DEV	1: WEB/APP	hwvauad169	Solaris	Sun ONE J2EE 5.2 Java	(blank)
				3: DB	hwvaudd1333	Solaris	Oracle 11g, OLTP	(C38DEV\100MB)
			3: TEST	1: WEB/APP	hwvauat183	Solaris	Sun ONE J2EE 5.2 Java	(blank)
				3: DB	hwvaudt1362	Solaris	Oracle 11g, OLTP	(C38iUAT\100MB)
TRACS (F87)	Multi-Family Housing	31509	1: PROD	1: WEB/APP	hudapps.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
					hudapps2.hud.gov	Linux 6.0	ColdFusion 9, Web server 7, SiteMinder 12.5	(blank)
				2: APP	hwvauap356	Solaris 10	Java 8.1	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
					hwvauap358	Solaris 10	Java 8.1	(blank)
					hwvauap708-709	Solaris 10	Java 9.1	(blank)
				3: DB	HSYS	IBM Z/OS 1.13	DB2 , BMC	(\70GB)
					hwvaldp3806	Linux	Oracle 11g	(F87PROD\14GB)
					nthccp08	Windows 2008	Sybase ASE 15.7	(HEREMS\127GB)
			2: DEV	2: APP (IMAX)	hwvauad627	Solaris 10	Java 9.1	(blank)
				3: DB	DSYS	IBM Z/OS 1.13	DB2 , BMC	(\75GB)
					hwvaldd3537	Linux 6.0	Oracle 11g	(F87DEV\14GB)
			2: DEV/TEST	1: WEB/APP	hwvalwd1907	Linux 6.4	TRACS 2.0.2.D, ColdFusion 9 , Web server 7, SiteMinder 12.5	(blank)
					hwvauat279	Solaris 10	Java 8.1, TRACS 2.0.2.D	(blank)
					hwvauat713 hwvauat712	Solaris 10	Java 9.1, TRACS 2.0.2.D	(blank)
				3: TEST	2: APP	hwvauwd1772	Java 9.1, TRACS 2.0.2.D	(blank)
					3: DB	hwvaldt3457	Linux 6.0	Oracle 11g
						hwvaldt3540	Linux 6.0	Oracle 11g
						hwvandt1027	Sybase ASE 15.7	(HEREMS\127GB)
					YSYS	IBM Z/OS 1.13	DB2 , BMC	(F87\75GB)
TransAccess	(blank)	(blank)	1: PROD	3: DB	(blank)	Linux	Oracle	(\5GB)
WASS (P104)	OCIO	144000	1: PROD	1: WEB	hwvalwp2044-2049 hwvalwp2076-2078	Linux 6.5	Oracle Web Server 7, ColdFusion 9	(blank)

App. Short	Dept./ Program	# of Users	Environment	Server Type	Server Id	Server Platform	Layer Software	Database\ Size
				2: APP	hwvalad3471-3472	Linux 6.5	Oracle WebLogic 10.36	(blank)
				3: DB	nthccp08	Windows 2008	Sybase ASE 15.7	(\375GB)
			2: DEV	1: WEB	hwvalwd2000	Linux 6.5	Oracle Web Server 7, Cold Fusion 9	(blank)
					hwvalwd3814	Linux 6.5	Oracle Web Server 7, Cold Fusion 9	(blank)
				2: APP	hwvalad3378-3379	Linux 6.5	Oracle WebLogic 10.36	(blank)
				3: DB	hwvandd3026	Windows 2008	Sybase ASE 15.7	(\375GB)

B.2 Server Profile

Shared Server

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
entp.hud.gov (hwvalwp3439-3436)	Linux 6.5	CAIVRS	1: PROD	1: WEB	ColdFusion 9, COBOL, DEPCON, SFTP, UNIACCESS		4630
		CHUMS	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		153
		CLAIMS	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		700
		FHAC	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		76510
		HCS	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		4171
		SFDMS	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		2
		SFIS	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		727
		SFNW	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		21058
		SFPCS-P	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		5427
		SFPCS-U	1: PROD	1: WEB/APP	ColdFusion 9, Java, HTML, ASP		16595
		TIIS	1: PROD	1: WEB	ColdFusion 9, Java, HTML, ASP		40
HSYS (Mainframe)	IBM Z/OS 1.13	CLAIMS	1: PROD	2: APP/DB	VSAM/DB2		700
		DCAMS	1: PROD	2: APP/DB	COBOL/390, CICS, JCL, VSAM, IMS	(F71P.DMC.D MCFF001\ F7AP.HGD.HG DFF001\)	53
		DMM	1: PROD	2: APP	Lotus Notes 6.5		500

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		DSRS	1: PROD	2: APP/DB	CICSTS 4.1, Direct Network Data Mover 4.5, ISPF 6.3, JES2 MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8	(\61.8TB)	25
		EDIS	1: PROD	2: APP	IBM Gentran for MVS/Data Facility 6.4		1571
		GSC	1: PROD	2: APP/DB	GSC C90, C2k, C2kX, FTP, NSC Hyperchannel, CA XCOM, Sybase Mainframe Connect, CA Endevor 7, CICS TS v4.1, DB2I, SMF, BMC, DB2 V8	(A15P001\19.8 K cylinders)	unlimited
		HPNFC	1: PROD	2: APP/DB	COBOL, CA Endevor 7, DB2 v10	(A75CPT_HUD_NFC\, A75CPT_ORG\)	
		HUDCAPS	1: PROD	2: APP/DB	UDCAPS, VSAM/DB2 v8.1	(A751H001\, A75PH01-08 \101.2 TB)	851
		MSCS2	1: PROD	2: APP/DB	Lotus Notes 6.5		
		PBC-Notes-Legacy	1: PROD	2: APP/DB	Lotus Notes 6.5	(pbc tracking.nsf \169MB, pbc archive.nsf \352MB)	272
		REAC	1: PROD	2: APP (Batch)	FTP,		90000
		SAMS	1: PROD	2: APP/DB	SAMS, DB2		347
		SFIS	1: PROD	3: DB	BMC, Spufi, IMS, GHS#, DB2	(A43P001\200 K cylinders)	727
		SFPCS-P	1: PROD	2: APP/DB	CICSTS 4.1, SAS 9.1.3, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2	(\480.7 TB)	5427

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					Universal DB for Z platform		
		SFPCS-U	1: PROD	2: APP/DB	CICSTS3.1, SAS 9.1.3 SP4, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(NOMAD\53.5 TB)	16595
		TIIS	1: PROD	3: DB	MBC, Spufi, IMS, GHAT#.GHAT, DB2	(F72p001\13K cylinders)	40
		TRACS	1: PROD	3: DB	DB2 , BMC	(\70GB)	31509
DSYS (Mainframe)	IBM Z/OS 1.13	CLAIMS	2: DEV	2: APP/DB	COBOL, Assembly, CICS, VSAM/DB2		700
		DSRS	2: DEV	2: APP/DB	Enterprise COBOL 4.2M0, CA Endevor 7, CICSTS 4.1, MVS/Data Facility 03.01.13.00, TSO/E 3130, Connect:Direct Network Data Mover 4.5M00, DB2 v8	(\1.5GB)	25
		EDIS	2: DEV	2: APP	IBM Gentran for MVS/Data Facility 6.4		1571

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		GSC	2: DEV	2: APP/DB	z/OS COBOL 4.2, PitneyBowes Goup1 Code 1 Plus 3.4, Oracle Client for z/OS, CICS TS 4.1, Java, NSC HyperChannel, FTP, CA XCOM, Sybase Mainframe Connect, CA Endevor 7, DB2I, SMF, BMC, DB2 V8	(A15D001\23.3 K cylinders, A15T001\19.7 K cylinders)	unlimited
		HPNFC	2: DEV	2: APP	COBOL (accessing PROD db)		
		HUDCAPS	2: DEV	2: APP/DB	COBOL II, Assembly, JCL, DB2 V8.1	(A75xxx\80GB)	851
		PBC-Notes-Legacy	2: DEV	2: APP/DB	Lotus Notes 6.5	(pbc tracking.nsf \20MB, pbc archive.nsf \20MB)	272
		SAMS	2: DEV	2: APP/DB	SAMS, DB2		347
		SFIS	2: DEV	3: DB	BMC, Spufi, IMS (GHAA\$.*), DB2	(A43TH002.*\100,000 cylinders)	727
		SFPCS-P	2: DEV	2: APP/DB	CICSTS 4.1, SAS 9.1.3, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(\12.6GB)	5427

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		SFPCS-U	2: DEV	2: APP/DB	CICSTS3.1, SAS 9.1.3 SP4, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, advantage gem c; oem t top; v6.0, encyclopedia 6.5, RD 4GL NOMAD, DB2 v8, DB2 Universal DB for Z platform	(\1.6GB)	16595
		TIIS	2: DEV	3: DB	MBC, Spufi, IMS, DB2	(GHAT#.GHAT\, F72D001\13K cylinders)	40
		TRACS	2: DEV	3: DB	DB2 , BMC	(\75GB)	31509
YSYS (Mainframe)	IBM Z/OS 1.13	CLAIMS	3: TEST	2: APP/DB	VSAM/DB2		700
		DSRS	3: TEST	2: APP/DB	CICST 4.1, Direct Network Data Mover 4.5, ISPF 6.3, JES2 MVS/Data Facility 3.1.13, TSO/E 3130, DB2 v8	(\61.8TB)	25
		GSC	3: TEST	2: APP/DB	GSC C90, C2k, C2kX, CA Endeavor 7, CICS 4.1, DB2I, QMF, BMC DB2 v8	(A15P001\19.8 K cylinders)	unlimited
		HUDCAPS	3: TEST	2: APP/DB	COBOL II, JCL, DB2 8.1	(A75yyy\103GB)	851
		PBC-Notes -Legacy	3: TEST	2: APP/DB	Lotus Notes 6.5	(pbc tracking.nsf \17MB, pbc archive.nsf \22MB)	272
		REAC	3: TEST	2: APP (Batch)	FTP		90000
		SFIS	3: TEST	3: DB	BMC, Spufi, IMS (GHS#.) DB2	(A43P001\200 K cylinders)	727

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		SFPCS-P	3: TEST	2: APP/DB	CICSTS 4.1, SAS 9.1.3, ISPF 6.3, JES2, MVS/Data Facility/Data Facility 3.1.13, TSO/E 3130, DB2 v8, DB2 Universal DB for Z platform	(\480.7 TB)	5427
		SFPCS-U	3: TEST	2: APP/DB	CICSTS 3.1, SAS 9.1.3 SP4, ISPF 6.3, JES2, MVS/Data Facility 3.1.13, TSO/E 3130, advantage gem c;oemt top; v6.0, encyclopedia 6.5, RD 4GL NOMAD, DB2 v8, DB2 Universal DB for Z platform	(\53.4GB)	16595
		TIIS	3: TEST	3: DB	MBC, Spufi, IMS, DB2	(GHAD\$*, F72D001\13K cylinders)	40
		TRACS	3: TEST	3: DB	DB2 , BMC	(F87\75GB)	31509
System 2 (Mainframe)	Unisys OS2200	BOND	1: PROD	2: APP	MAPPER		5
		CAIVRS	1: PROD	3: DB	IPF, QLP, SQL, CMPlus, RDMS/DMS	(F57SCHEMA\4.3M tracks)	4630
		CHUMS	1: PROD	2: APP/DB	CMPlus & Serena Simensions, RDMS-1100, DMS,	(F17RDMS\11 M tracks)	153
		CSFSS	1: PROD	2: APP/DB	COBOL, DEPCON, CMPlus, UNIACCESS, ECL, IPF, UTIL, EXEC, DMP	(PF42*F42BIA\ , PF42*F42EDA\ , PF42*F42BJA\)	2
		FHAC	1: PROD	3: DB	Unisys RDMS-1100	(F17RDMS\)	76510
		LOCCS	1: PROD	2: APP/DB	LOCCS, RDMS 2200, DMS 2200,	(A67\)	21700

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		PAS	1: PROD	2: APP/DB	COBOL, MAPPER , DMS	(A96\)	55
		REAC	1: PROD	2: APP (Batch)	FTP		90000
		SFDMS	1: PROD	2: APP/DB	COBOL Bulk File Transfer Utility, network systems, NETEX, DEPCON, COMPlus, UNIACCESS, ECL RDBMS	(PU08*F42DEF AULT\)	2
System 3 (Mainframe)	Unisys OS2200	BOND	2: DEV	2: APP	MAPPER		5
		CAIVRS	2: DEV	3: DB	IPF, QLP, SQL, CMPlus, RDMS/DMS	(F57SCHEMA\ 4.3M tracks)	4630
		CHUMS	2: DEV	2: APP/DB	CMPlus & Serena Simensions, RDMS-1100, DMS	(F17RDMS\11 M tracks)	153
		CSFSS	2: DEV	2: APP/DB	COBOL, DEPCON, CMPlus, UNIACCESS, ECL, IPF, UTIL, EXEC, DMP	(PF42*F42BIA\ , PF42*F42EDA\ , PF42*F42BJA\)	2
		FHAC	2: DEV	3: DB	Unisys RDMS-1100	(F17RDMS\)	76510
		LOCCS	2: DEV/TEST	2: APP/DB	LOCCS, COBOL, RDMS 2200, DMS 2200,	(D67\)	21700
		PAS	2: DEV	2: APP/DB	COBOL, MAPPER , DMS 2200	(A96\)	55
		REAC	3: TEST	2: APP (Batch)	FTP		90000
		SFDMS	2: DEV	2: APP/DB	COBOL Bulk File Transfer Utility, Network Systems, NETwork Executive (NETEX), DEPCON, CMPlus,	(PU08*F42DEF AULT\)	2

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					UNIACCESS, ETL; IPF, UTIL, EXEC, DMP		
nthccp08	Windows 2008	APPS	1: PROD	3: DB	Sybase ASE 15.7, Interactive SQL, BCP, Sybase Central	(HEREM\97.8 GB+17GB, HEREMS_Audit\142.4GB+1.8 GB)	20929
		DAP	1: PROD	3: DB	Sybase ASE 15.7	(\3.5GB)	450
		iREMS/iBF M	1: PROD	3: DB	Sybase ASE 15.7	(HEREMS\127 GB)	3309
		LASS	1: PROD	3: DB	Sybase ASE 15.7	(LASS\17 GB)	51
		M2M	1: PROD	3: DB	Sybase ASE 15.7	(HEREMS\107 GB)	138/3046
		MDDR	1: PROD	3: DB	Sybase ASE 15.7	(HEREMS\107 GB)	400
		REAC	1: PROD	3: DB (Batch)	Winzip 14 w, FTP, Sybase ASE 15.7		90000
		TRACS	1: PROD	3: DB	Sybase ASE 15.7	(HEREMS\127 GB)	31509
		WASS	1: PROD	3: DB	Sybase ASE 15.7	(\375GB)	144000
hvwandd1028	Windows 2008	AFOCS	2: DEV/TEST	3: DB	Sybase ASE 15.7, Sybase Central, Interactive SQL	(F71_Asset_rec\)	50
		ARM	2: DEV/TEST	3: DB	Sybase ASE 15.7	(cars_int\7GB)(cars_pilot\7GB)	4097
		DAP	2: DEV	3: DB	Sybase ASE 15.7	(\5GB)	450
		HCS	2: DEV/TEST	3: DB	Sybase ASE 15.7	(LASS_DEV\, LASS_TEST\, LASS_PROD\16GB), (cars_int\, cars_arch\6.8GB)(cars\6.8GB)	4171
		iREMS/iBF M	3: TEST	3: DB	Sybase ASE 15.7	(HEREMS\,rem s_current\127GB)	3309

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		LASS	2: DEV	3: DB	Sybase ASE 15.7	(LASS_DEV\, LASS_TEST\, LASS_PROD\16GB), (cars_int, cars_arch\6.8GB)	51
		M2M	2: DEV	3: DB	Sybase ASE 15.7	(HEREMS_m2m_DEV\27GB)	138/3046
		MDDR	2: DEV	3: DB	Sybase ASE 15.7	(HEREMS_mdr_DEV\, v07rs\27GB)	400
		TRACS	2: DEV	3: DB	Sybase ASE 15.7	(herems_tracs_DEV\, v07r4\25GB)	31509
hwvandt1027	Windows 2008	APPS	3: TEST	3: DB	Sybase ASE 15.7, Interactive SQL, BCP, Sybase Central	(HEREMS\95GB+17.1GB, HEREMS_Audit\137.3GB+2GB)	20929
		DAP	3: TEST	3: DB	Sybase ASE 15.7	(daps\3.5GB)	450
		iREMS/iBFM	2: DEV	3: DB	Sybase ASE 15.7	(HEREMS\127GB)	3309
		M2M	3: TEST	3: DB	Sybase ASE 15.7	(HEREMS\107GB)	138/3046
		MDDR	3: TEST	3: DB	Sybase ASE 15.7	(HEREMS\107GB)	400
		TRACS	3: TEST	3: DB	Sybase ASE 15.7	(HEREMS\127GB)	31509
hwvandt1581	Windows 2008	DDSS+	3: TEST	3: DB	MS SQL Server 2000	(D074_TEST\1.9GB)	10
		AFOCS	3: Test	2: APP (LAN)	Sybase Central, Interactive SQL		50
		ARRTS	3: TEST	3: DB	MS SQL Server 2000		206
		EZB	3: TEST	3: DB	MS SQL Server 2000	(D61_TEST\)	140
		EZ-RC-PERMS	2: DEV	1: WEB/APP	ASP 3.0		300
		GMP	3: TEST	3: DB	MS SQL Server 2005, PowerBuilder 6.5, client/server dbms,	(GMP_TEST\)	900
hlanndp026	Windows 2003	ARRTS	1: PROD	3: DB	MS SQL Server 2000		206

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		DECMS	1: PROD	3: DB	MS SQL Server 2000	(DECMSDB\)	800
		ECPCIS	1: PROD	3: DB	MS SQL Server 2000	(ECPCIS\)	179
		EZB	1: PROD	3: DB	MS SQL Server 2000	(D61_PROD\)	140
		LR2000	1: PROD	3: DB	PowerBuilder 12, MY SQL 2000		
hdrfndd002	Windows 2008	ACRS	2: DEV	3: DB	MS SQL Server 2000	(D04_DEV\7.7 GB)	3325
		DECMS	2: DEV	3: DB	MS SQL Server 2000	(V02A_DEV\)	800
		EZB	2: DEV	3: DB	MS SQL Server 2000	(D61_DEV\)	140
		EZ-RC-PE RMS	2: DEV	3: DB	MS SQL Server	(PERMS\500MB)	300
		GMP	2: DEV	3: DB	MS SQL Server 2005, PowerBuilder 6.5,	(GMP_DEV\)	900
hlanndp019	Windows 2008	ACRS	1: PROD	3: DB	MS SQL Server 2000	(D04_PROD\ 7.7GB)	3325
		EZ-RC-PE RMS	1: PROD	3: DB	MS SQL Server	(PERMS\500MB)	300
		GMP	1: PROD	3: DB	MS SQL Server 2005, PowerBuilder 6.5,		900
		TDLS	1: PROD	2: APP/DB	MS SQL Server 2000	(A62_PROD\ 250MB)	9918
hwvaldd1927	Linux 6.4	DRGR	2: DEV	2: APP/DB	Sun ONE 8.1, Java 1.5, MicroStrategy BI Suite 9.3		4574
		MFOracleRS	2: DEV	3: DB (Meta Data)	MicroStrategy BI Suite 9.3		
		MSTR	2: DEV	3: DB (Meta Data for iBFM/iREMS)	MicroStrategy BI Suite 9.3		37000
		REAC	2: DEV	3: DB	Oracle 11g		90000
nthhqp17	Solaris 10	AFOCS	1: PROD	3: DB	Sybase ASE 15.7		50
		ARM	1: PROD	3: DB	Sybase ASE 15.7	(\7GB)	4097
		HCS	1: PROD	3: DB	Sybase ASE 15.7	(cars, cars_arch\6.8GB)	4171
		HMIMIS	1: PROD	3: DB	Sybase ASE	(P046_HMIMI)	50+

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					15.7	S\)	
hwvaldp1916-1917	Linux	DRGR	1: PROD	2: APP/DB	Sun ONE Application Server Application Server8.1, MicroStrategy BI suite 9.3		4574
		MFOracleRS	1: PROD	3: DB (Meta Data for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	3: DB (Meta Data)	MicroStrategy BI suite 9.3		37000
		REAC	1: PROD	3: DB	Oracle 11g		90000
ecasedb-01	Windows 2008	ARCATS-e Case	1: PROD	3: DB	MS SQL Server 2008	(ECASEDB-01\)	433
		ERM/CTS/FMS2	2: DEV	3: DB	MS SQL Server 2008	(Ecasedb-01\)	
		PBC-eCase	1: PROD	2: APP/DB	.NET/.IIS 7.5, MS SQL Server 2008	(Ecasedb-01\)	55
hdrfndd001	Windows 2008	ARRTS	2: DEV	3: DB	MS SQL Server 2000		206
		ECPCIS	2: DEV	3: DB	MS SQL Server 2000	(ECPCIS\)	179
		LAS	2: DEV/TEST	3: DB	MS SQL Server 2008, Management Studio	(NLS_DEV\), (NLS_UAT\)	33
hlanndp016	Windows 2008	DDSS+	1: PROD	3: DB	MS SQL Server 2000, Sybase ASE 15.7	(D074_SPP_PROD\1.9GB)	10
		HPS/SPS	1: PROD	2: APP/DB	PowerBuilder 9, MS SQL Server 2000	(P035_PROD\)	224
		LAS	1: PROD	3: DB	MS SQL Server 2000, Management Studio	(NLS_PROD\)	33
hwvaldp3534	Linux	FDM	1: PROD	3: DB	Oracle 11g	(A75RWRHD\10GB)	1158
		FDOnline	1: PROD	3: DB	Oracle 11g	(A75RWRHD\10GB)	2500
		PSCRS	1: PROD	3: DB	Oracle 11g	(A75IPROD\126 GB)	12
hwvaldt1937	Linux 6.4	DRGR	3: TEST	2: APP/DB (Training)	Sun ONE 8.1, Java 1.5, MicroStrategy		4574

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					BI suite 9.3		
		MFOracleRS	3: TEST	3: DB (Meta Data for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		REAC	3: TEST	3: DB	Oracle 11g		90000
hwvaldd3457	Linux 6.0	iREMS/iBFM	2: DEV	3: DB	Oracle 11g	(IREMSTST\24GB)	3309
		MFDCS	3: TEST	3: DB	Oracle 11g	(iREMSUAT\)	
		TRACS	3: TEST	3: DB	Oracle 11g	(F87TEST\14GB)	31509
hdrfndd003	Windows 2008	ACRS	3: TEST	3: DB	MS SQL Server 2000	(D04_TEST\7.7GB)	3325
		LR2000	3: TEST	3: DB	PowerBuilder 12		
hwvaldd3380	Linux 6.0	iREMS/iBFM	3: TEST	3: DB	Oracle 11g	(IREMSDEV\24GB)	3309
		M2M	2: DEV	3: DB	Oracle 11g	(F24BDEV\)	138/3046
hwvaldd3381	Linux 6.0	HM-OPIIS	2: DEV	3: DB	Oracle 11g	(OEMFDDDB1\)	1500
		MFOracleRS	2: DEV	3: DB	Oracle 11g	(MFRPTDEV\, MFRPTTST\90GB)	
hwvaldd3398	Linux 6.5	HEROS	2: DEV	3: DB	Oracle 11g	(C04HEROS\)	4150
		IDIS	2: DEV	3: DB	Oracle 11g, OLTP, OLAP		9168
hwvaldd3480	Linux 6.5	HCS	2: DEV	3: DB	Oracle 11g	(F11DEV\4.3GB)	4171
		Team	2: DEV	3: DB	Oracle 11g	(TEAMDEV, TEAMTST, TEAMTRN\)	8100
hwvaldd3510	Linux	FDM	2: DEV	3: DB	Oracle 11g	(A75RWRHD\9.1GB)	1158
		PSCRS	2: DEV	3: DB	Oracle 11g	(A75IDEV\37GB)	12
hwvaldp1918	Linux	MFOracleRS	1: PROD	3: DB (Enterprise Manager for iBFM/iREMS)	MicroStrategy BI Suite 9.3		
		MSTR	1: PROD	3: DB (Enterprise Manager)			37000
hwvaldp3460	Linux 6.0	HM-OPIIS	1: PROD	3: DB	Oracle 11g	(OEMFTDB1\, INFOREP\, OEMFTDB1\, INFOREP\)	1500

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		MFOracleRS	1: PROD	3: DB	Oracle 11g	(MFRPTPRD\90GB)	
hwvaldp3706	Linux 6.5	HEROS	1: PROD	3: DB	Oracle 11g	(C04HEROS\)	4150
		IDIS	1: PROD	3: DB	Oracle 11g R2, OLTP	(C04PROD\)	9168
hwvaldt3458	Linux 6.0	HM-OPIIS	3: TEST	3: DB	Oracle 11g	(OEMFTDB1\)	1500
		MFOracleRS	3: TEST	3: DB	Oracle 11g	(MFRPTINT\90GB)	
hwvaldt3483	Linux 6.5	HEROS	3: TEST	3: DB	Oracle 11g	(C04HEROS\)	4150
		IDIS	3: TEST	3: DB	Oracle 11g. R2, OLTP		9168
hwvaldt3507	Linux 6.5	HEROS	3: TEST	3: DB	Oracle 11g	(C04HEROS\)	4150
		IDIS	3: TEST	3: DB	Oracle 11g, OLTP, OLAP		9168
hwvaudd404	Solaris	FHITS	2: DEV	3: DB	Oracle 11g		1000
		HEMS	2: DEV	3: DB	Oracle 11g	(VOEHEMSD\2.5GB)	
hwvaldd1928	Linux	MFOracleRS	2: DEV	3: DB (Enterprise Manager for iBFM/iREMS)	MicroStrategy BI Suite 9.3		
		MSTR	2: DEV	3: DB (Enterprise Manager)	MicroStrategy BI Suite 9.3	(C38GPRD\, C38GRPT\50GB)	37000
hwvandp1143	Windows 2003	FDM	1: PROD	3: DB	MS SQL Server 2005	(a75r_jrnis\, a75r_PROD\, a75r_tran\, cogos_audit\, cognos_cm\), (travel\1.05 TB)	1158
		FDOnline	1: PROD	3: DB	MS SQL Server 2005	(travel\1.05 TB)	2500
hwvalwd1868	Linux 6.5	CAIVRS	2: DEV	2: APP	ColdFusion 9, COBOL, DEPCON, SFTP, UNIACCESS		4630
		CHUMS	2: DEV	1: WEB	ColdFusion 9		153
		SFIS	2: DEV/TEST	1: WEB	ColdFusion 9, Java, HTML, ASP		727
		SFNW	2: DEV	1: WEB/APP	ColdFusion 9		21058
		SFPCS-P	2: DEV	2: APP	FHAC Development servers, ColdFusion 9, HTML, Java		5427

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		SFPCS-U	2: DEV	1: WEB/APP	FHAC Development servers, ColdFusion 9, HTML, Java		16595
		TIIS	2: DEV/TEST	1: WEB/APP	ColdFusion 9, Java, HTML		40
hwvalwt1933-1934	Linux	DRGR	2: DEV/TEST	1: WEB/APP	Sun ONE 8.1, Java 1.5, MicroStrategy BI suite 9.3		4574
		HUDSTAT	3: TEST	1: WEB	MicroStrategy BI suite 9.3		330
		MFOracleRS	3: TEST	1: WEB/APP (BI for iBFM/iREMS Reports)	MicroStrategy BI suite 9.3		
		MSTR	3: TEST	1: WEB/APP	MicroStrategy BI suite 9.3		37000
		REAC	3: TEST	2: APP	MicroStrategy BI suite 9.3		90000
hwvalwp1908-1911	Linux	DRGR	1: PROD	1: WEB/APP	Sun ONE 8.1, MicroStrategy BI suite 9.3		4574
		HUDSTAT	1: PROD	1: WEB	MicroStrategy BI suite 9.3		330
		MFOracleRS	1: PROD	1: WEB/APP (for iBFM/iREMS Reports)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	1: WEB/APP	MicroStrategy BI suite 9.3		37000
		REAC	1: PROD	2: APP	MicroStrategy BI suite 9.3		90000
hwvalwd1907	Linux 6.4	APPS	2: DEV/TEST	1: WEB/APP	APPS v12.2, ColdFusion 9, Webserver 7, SiteMinder 12.5		20929
		iREMS/iBFM	2: DEV/TEST	2: APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		3309
		M2M	2: DEV/TEST	1: WEB/APP	M2M v7.3.4, ColdFusion 9, Webserver 7, SiteMinder		138/3046

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					12.5		
		MDDR	2: DEV/TEST	1: WEB/APP	M2M v7.3.4, ColdFusion 9, Webserver 7, SiteMinder 12.5		400
		TRACS	2: DEV/TEST	1: WEB/APP	TRACS 2.0.2.D, ColdFusion 9, Webserver 7, SiteMinder 12.5		31509
hwvalat1935-1936	Linux	DRGR	3: TEST	2: APP (BI Training)	Sun ONE 8.1, Java 1.5, MicroStrategy BI suite 9.3		4574
		HUDSTAT	3: TEST	2: APP	MicroStrategy BI suite 9.3		330
		MFOracleRS	3: TEST	2: APP (BI for iBFM/iREMS Reports)	MicroStrategy BI Suite 9.3		
		MSTR	3: TEST	2: APP (BI)	MicroStrategy BI suite 9.3		37000
		REAC	3: TEST	2: APP	MicroStrategy BI suite 9.3		90000
hudapps.hud.gov	Linux 6.0	APPS	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		20929
		M2M	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5, M2M 7.3.4		138/3046
		MDDR	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		400
		TRACS	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		31509
hudapps2.hud.gov	Linux 6.0	APPS	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		20929

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		iREMS/iBFM	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		3309
		M2M	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5, M2M 7.3.4		138/3046
		MDDR	1: PROD	1: WEB/APP	ColdFusion 9, Webserver 7, SiteMinder 12.5		400
		TRACS	1: PROD	1: WEB/APP	ColdFusion 9, webserver 7, SiteMinder 12.5		31509
hwvalwd1923-1924	Linux	HUDSTAT	2: DEV	1: WEB	MicroStrategy BI suite 9.3		330
		MFOracleRS	2: DEV	1: WEB/APP (for iBFM/iREMS Reports)	MicroStrategy BI suite 9.3		
		MSTR	2: DEV	1: WEB/APP	MicroStrategy BI suite 9.3		37000
		REAC	2: DEV	2: APP (Report)	MicroStrategy BI suite 9.3		90000
hwvalap1912-1915	Linux	DRGR	1: PROD	2: APP (BI)	MicroStrategy BI suite 9.3		4574
		HUDSTAT	1: PROD	2: APP	MicroStrategy BI suite 9.3		330
		MFOracleRS	1: PROD	2: APP (BI for iBFM/iREMS Reports)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	2: APP (BI)	MicroStrategy BI suite 9.3		37000
hwvalad1925-1926	Linux	DRGR	2: DEV	2: APP (BI)	Sun ONE 8.1, Java 1.5, MicroStrategy 9.3		4574
		HUDSTAT	2: DEV	2: APP (BI)	MicroStrategy BI suite 9.3		330
		MFOracleRS	2: DEV	2: APP (BI for iBFM/iREMS Reports)	MicroStrategy BI suite 9.3		

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		MSTR	2: DEV	2: APP (BI)	MicroStrategy BI suite 9.3		37000
ctsp.hud.gov	Windows 2008	ARCATS-e Case	1: PROD	1: WEB/APP	.NET/.IIS 7.5		433
		ERM/CTS/FMS2	2: DEV	2: APP	.NET/.IIS 7.5, CatExpress, FOIAxpress		
		PBC-eCase	1: PROD	1: WEB/APP	.NET/.IIS 7.5, MS SQL Server 2008		272
hlannfp019	Windows 2003	EZB	1: PROD/DEV /TEST	2: APP (LAN)	EZBudget 6.7		140
		FIRMS	1: PROD	2: APP	Archibus 16		
		SFPCS-P	1: PROD	2: APP	H.I.G, Drive ORG, OAS, USER1		5427
hlannrd003	Windows 2003	CHUMS	2: DEV	2: APP	DEPCON EOM 8.1.2		153
		SFPCS-P	2: DEV	2: APP	DEPCON report repository		5427
		SFPCS-U	2: DEV	2: APP	DEPCON report repository		16595
hwvalwd3231	Linux 6.5	HCS	3: TEST	1: WEB/APP	ColdFusion 9		4171
		SFPCS-P	2: DEV	2: APP	FHAC Development servers, ColdFusion 9, HTML, Java		5427
		SFPCS-U	2: DEV	1: WEB/APP	FHAC Development servers, ColdFusion 9, HTML, Java		16595
hwvanad1931	Windows 2008	MFOracleRS	2: DEV	2: APP (Terminal server for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		MSTR	2: DEV	2: APP (Terminal Server)	MicroStrategy BI suite 9.3		37000
		REAC	2: DEV	2: APP (Terminal Server)	MicroStrategy BI suite 9.3		90000

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
hwvanap1921	Windows 2008	MFOracleRS	1: PROD	2: APP (Terminal Server)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	2: APP (Terminal Server)	MicroStrategy BI suite 9.3		37000
		REAC	1: PROD	2: APP (Terminal Server)	MicroStrategy BI suite 9.3		90000
hwvanwp1258	Windows 2003	FDM	1: PROD	1: WEB	.NET v4, .NET/.IIS v6, Adobe ColdFusion MX8		1158
		FDOOnline	1: PROD	1: WEB	.NET 4, Adobe ColdFusion MX8		2500
		PSCRS	1: PROD	1: WEB/APP	.Net v4		12
hwvauad089	Solaris 5.10	ARRTS	2: DEV	2: APP	Java 8.1_02		206
		HCS	2: DEV	1: WEB/APP	ColFfusion 9		4171
		Team	2: DEV	2: APP	Oracle 10g, JCreator LE, CVSNT 2.0.58d, Tortoise CVS 1.8.11, Sun ONE 8, SQL Developer, Java 1.5 JROCKIT-JDK, Java 1.5 JRE, Netbeans 4.1 IDE		8100
hwvauwd233	Solaris 5.10	CLAIMS	2: DEV	2: APP	ColdFusion 9		700
		LOCCS	3: TEST	2: APP	eLOCCS, ColdFusion 7, Java 6 SE		21700
		REAC	2: DEV/TEST	3: DB	Sybase ASE 15.7		90000
hhhqnwd002	Windows	SFHEDW	2: DEV	2: APP	ColdFusion 5		436
		SFIS	2: DEV	2: APP/DB	ASP/.NET/.IIS 6.0, MS SQL Server		727
hlanndp011 (For FHAC and Pay.gov)	Windows	SFPCS-P	1: PROD	2: APP	Java		5427
		SFPCS-U	1: PROD	2: APP	Java		16595
hlannrp003	Windows	SFPCS-P	1: PROD	2: APP	DEPCON report repository		5427

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
		SFPCS-U	1: PROD	2: APP	DEPCON Report Repository		16595
hlannrp021	Windows 2008	SFPCS-P	2: DEV	1: WEB/APP	SFTP, Serena Dimensions, LAN sw repository		5427
		SFPCS-U	2: DEV	1: WEB/APP	SFTP, Serena Dimensions, LAN sw repository		16595
hudwebapps6	Windows	DECMS	1: PROD	1: WEB/APP	ASP, Crystal Reports 8, ActiveX Control		800
		ECPCIS	1: PROD	1: WEB/APP	.NET/.IIS, ASP, SharePoint 2010		179
hwvaldd3234	Linux 6.4	FHAC	2: DEV	3: DB (webDB)	Oracle	(F17webdd\)	76510
		SFDMS	2: DEV	2: APP (FHA Connection)	ColdFusion 9		2
hwvaldp3014	Linux	FHITS	1: PROD	2: APP (Report server)	Oracle 11g		1000
		TEAPOTS	1: PROD/DEV /TEST	2: APP (Report server)			1400
hwvalwt3447	Linux	SFPCS-P	3: TEST	2: APP	HUD TEST Center		5427
		SFPCS-U	3: TEST	2: APP	HUD TEST Center		16595
hwvanad1263	Windows 2003	FDM	2: DEV	1: WEB	.NET v4, .NET/.IIS v6, Adobe ColdFusion MX8		1158
		PSCRS	2: DEV	1: WEB/APP	MS .NET		12
hwvanad1287	Windows 2003	DRGR	2: DEV	2: APP (MAP)	.NET/.IIS		4574
		HUD eGIS	2: DEV	1: WEB/APP (GIS)	ArcGIS Server SOM, SOC, Oracle 11g client r11.2.0.1.0, .NET web services,		25250

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					eGIS Web applications, .NET/.IIS		
hwvanad1929	Windows 2008	MFOracleRS	2: DEV	2: APP (Enterprise Mgr for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		MSTR	2: DEV	2: APP (Enterprise Mgr)	MicroStrategy BI suite 9.3		37000
hwvanad1930	Windows 2008	MFOracleRS	2: DEV	2: APP (Mobile for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		MSTR	2: DEV	2: APP (Mobile)	MicroStrategy BI suite 9.3		37000
hwvanad1932	Windows 2008	MFOracleRS	2: DEV	2: APP (Narrow Cast for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		MSTR	2: DEV	2: APP (Narrow Cast)	MicroStrategy BI suite 9.3		37000
hwvanap1181 hwvanap1159	Windows 2003	FDM	1: PROD	2: APP (BI)	IBM Cognos 8.4		1158
		FDOnline	1: PROD	2: APP	IBM Cognos 8.4		2500
hwvanap1919	Windows 2008	MFOracleRS	1: PROD	2: APP (Enterprise Mgr)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	2: APP (Narrow Cast)	MicroStrategy BI suite 9.3		37000
hwvanap1920	Windows 2008	MFOracleRS	1: PROD	2: APP (Mobile)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	2: APP (Mobile)	MicroStrategy BI suite 9.3		37000
hwvanap1922	Windows 2008	MFOracleRS	1: PROD	2: APP (Narrow Cast)	MicroStrategy BI suite 9.3		
		MSTR	1: PROD	2: APP (Enterprise Mgr)	MicroStrategy BI suite 9.3		37000

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
hwvanat1288	Windows 2003	DRGR	3: TEST	2: APP (MAP for Training)	.NET/.IIS		4574
		HUD eGIS	3: TEST	1: WEB/APP	ArcGIS Server SOM, SOC, Oracle 11g client r11.2.0.1.0, .NET web services, eGIS Web applications, .NET/.IIS		25250
hwvanat1941	Windows 2008	MFOracleRS	3: TEST	2: APP (Terminal Server for iBFM/iREMS)	MicroStrategy BI suite 9.3		
		REAC	3: TEST	2: APP (Terminal)	MicroStrategy BI suite 9.3		90000
hwvanrd564	Windows	GSC	2: DEV	2: APP (Com Bridge)	Sybase Direct Connect v12		unlimited
		SFPCS-P	2: DEV	2: APP	Sybase Direct Connect v12, Sybase/SAP 15.5		5427
hwvanrp568	Windows	GSC	1: PROD	2: APP (Com Bridge)	Sybase Direct Connect v12		unlimited
		SFPCS-P	1: PROD	2: APP	Sybase Direct Connect v12		5427
hwvanwt1784	Windows	AFOCS	2: DEV	1: WEB/APP	HTML, Java, ColdFusion 8.0, Sybase Central, Interactive SQL, AFOCS, ICBTS		50
		SFIS	3: TEST	2: APP/DB	ASP/.NET/.IIS 6.0, MS SQL Server		727
hwvauad1126	Solaris 10	ARM	2: DEV	2: APP	GlassFish 2.1.1, JROCKIT-JDK 1.6		4097
		REAC	2: DEV/TEST	2: APP	GlassFish 2.1.1		90000
hwvauad1127	Solaris 10	ARM	3: TEST	2: APP	GlassFish 2.1.1, JROCKIT-JDK		4097

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					K 1.6		
		REAC	2: DEV/TEST	2: APP	GlassFish 2.1.1		90000
hwvauap1124-1125	Solaris 10	APPS	1: PROD	1: WEB/APP	GlassFish 2.1.1, Enterprise Cluster		20929
		REAC	1: PROD	2: APP	GlassFish 2.1.1		90000
hwvauap356	Solaris 10	OGC-ETS	1: PROD	2: APP	GlassFish 2.1.1		700
		TRACS	1: PROD	2: APP	Java 8.1		31509
hwvauap357	Solaris 10	ARRTS	1: PROD	2: APP	Java 8.1		206
		Team	1: PROD	2: APP	Team 7.0		8100
hwvauap386	Solaris 10	SFPCS-P	1: PROD	2: APP	Shell Script for SFTP		5427
		SFPCS-U	1: PROD	2: APP	Shell Script for SFTP		16595
hwvauap606	Solaris 10	APPS	1: PROD	1: WEB/APP	GlassFish 2.1, Enterprise Doman Adman Server		20929
		REAC	1: PROD	2: APP	GlassFish 2.1		90000
hwvauat461	Solaris	SFPCS-P	2: DEV	2: APP	Shell Script for SFTP		5427
		SFPCS-U	2: DEV	2: APP	Shell Script for SFTP		16595
hwvaudd1337	Solaris 10	SFHEDW	2: DEV	2: APP/DB	Sybase IQ 15.2, Sybase ASE 15.7	(SFDW\4.3TB + 128GB MEM)	436
		SFNW	2: DEV	3: DB	Sybase IQ 15.2, Sybase ASE 15.7	(SFDW\)	21058
hwvaudd1601	Solaris 10	HM-OPIIS (P220)	2: DEV	3: DB	Oracle 11g	(OEMFDDB1\, INFOREP-current\)	1500
		HUDSTAT	1: PROD/DEV	2: APP (ETL Batch)	Informatica PowerCenter 8.6.1		330
hwvauddp1311	Solaris 10	SFHEDW	1: PROD	2: APP/DB	Sybase IQ 15.2, Sybase ASE 15.7	(SFDW\4.3TB + 128GB MEM)	436
		SFNW	1: PROD	3: DB	Sybase ASE 15.7		21058
nthhqp16	Windows 2008	IMF	1: PROD/DEV	2: APP/DB	Sybase ASE 15.7		
		REAC	1: PROD	3: DB	Sybase ASE 15.7		90000
nthhqd143	Windows 2003	DECMS	2: DEV	1: WEB/APP	ASP, Crystal Reports 8,		800

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	Database\Size	# of Users
					ActiveX Control		
		ECPCIS	2: DEV	1: WEB/APP	.NET/.IIS, ASP, SharePoint 2010		179

Dedicated Server

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
10.1.1.180	Solaris 5.1	GMS	3: TEST	2: APP	OSHC GMS		172
10.1.1.61	Solaris 5.1	GMS	3: TEST	3: DB	Oracle SQL Developer 3.2	(Orade\10MB)	172
172.21.111.76	Windows 2003	HMIMIS	2: DEV/TEST	1: WEB/APP	ColdFusion 9		50+
172.21.80.45	Windows 2003	HMIMIS	2: DEV/TEST	3: DB	Sybase ASE 15.7	(P046_HMIMIS)	50+
atlas.hud.gov	Windows 2008	APPS	2: DEV	3: DB	Sybase ASE 15.7, Interactive SQL, BCP, Sybase Central	(HEREMS\102GB+18GB HEREMS_Audit\143GB+2GB, HEREMS_P16\150MB+10MB)	20929
atslocCs	Windows 2003	LOCCS	2: DEV	2: APP	ColdFusion 5, Java 6 SE		21700
DeskTop		EZB	2: DEV	0: DESKTOP	PowerBuilder v 11.5, MS SQL Server client 2000		140
devportalapps.hud.gov		IOD	2: DEV	1: WEB	WebLogic 10.3.6		
ediscovery.hud.gov	Windows	OGC-EDMS	2: DEV/TEST	2: APP	EMC Source Once, e-Discovery tool, Kazeon		478
elaknapv004	Windows 2008	SharePoint	1: PROD	2: APP (Index server)	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elaknapv005	Windows 2008	SharePoint	1: PROD	2: APP (Cube, sql analytic server)	SharePoint 2010, Project Server 2010, UMT 360, MS SQL Server 2008		unlimited
elaknapv006	Windows 2008	SharePoint	1: PROD	2: APP (project, Excel Service)	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elaknapv007	Windows 2008	SharePoint	1: PROD	2: APP	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elaknbpv001	Windows 2008	SharePoint	1: PROD	3: DB (standby and	MS SQL Server 2008, DOCAve		unlimited

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
				archive)	Manager		
elakndpv002	Windows 2008	SharePoint	1: PROD	3: DB	MS SQL Server 2008		unlimited
elaknwpv003-005	Windows 2008	SharePoint	1: PROD	1: WEB	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elannapv006	Windows 2008	SharePoint	1: PROD	2: APP (Index server)	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elannapv007	Windows 2008	SharePoint	1: PROD	2: APP (Cube, sql analytic server)	SharePoint 2010, Project Server 2010, UMT 360, MS SQL Server 2008		unlimited
elannapv008	Windows 2008	SharePoint	1: PROD	2: APP (project, Excel Service)	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elannapv009	Windows 2008	SharePoint	1: PROD	2: APP	SharePoint 2010, Project Server 2010, UMT 360		unlimited
elannbpv001	Windows 2008	SharePoint	1: PROD	3: DB (standby and archive)	MS SQL Server 2008, DOCAve Manager		unlimited
elanndpp009-010	Windows 2008	SharePoint	1: PROD	3: DB	MS SQL Server 2008		unlimited
elannwpv003-005	Windows 2008	SharePoint	1: PROD	1: WEB	SharePoint 2010, Project Server 2010, UMT 360		unlimited
hdrfndd004	Windows 2003	REAC	2: DEV/TEST	3: DB	MS SQL Server 2000		90000
hdrfndd010	Windows 2003	LAS	2: DEV/TEST	2: APP	Nortridge Loan System (NLS) 4.5.23, .NET 4.0		33
hdrfnff006	Windows 2008	EZ-RC-PERMS	3: TEST	3: DB	MS SQL Server	(PERMS\500MB)	300
hdrfnwd001	Windows 2008	EZ-RC-PERMS	3: TEST	1: WEB/APP	ASP 3.0		300
hdrfnwp008	Windows 2003	GIMS II	1: PROD	2: APP (Batch)	Omniformat		1500
hdrndd002	Windows 2003	TDLS	2: DEV	3: DB	MS SQL Server 2000	(A62_DEV\250MB)	9918

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hdrn003	Windows 2003	TDLS	3: TEST	3: DB	MS SQL Server 2000	(A62_TEST\250MB)	9918
hecaltdb	Windows 2003	HERMIT	2: DEV/TEST	3: DB (AM Server)	Oracle 10g		2750
hecaltdb01	Windows 2003	HERMIT	1: PROD	3: DB (AM Server)	Oracle 11g		2750
hecaltweb	Windows 2008	HERMIT	2: DEV/TEST	1: WEB (AM Server)	Oracle 11g		2750
hecaltweb01	Windows 2003	HERMIT	1: PROD	1: WEB (AM Server)	Oracle 11g		2750
hecmsql	Windows 2008	HERMIT	2: DEV/TEST	3: DB (SM Server)	MS SQL Server 2008		2750
hecmsql01-02	Windows 2008	HERMIT	1: PROD	3: DB (SM Server)	MS SQL Server 2008		2750
hecweb	Windows 2008	HERMIT	2: DEV/TEST	1: WEB (SM Server)	MS SQL Server 2008		2750
hecweb01-b02	Windows 2008	HERMIT	1: PROD	1: WEB (SM Server)	MS SQL Server 2008		2750
hhhqn002	Windows 2000	CHUMS	1: PROD	2: APP	DEPCON EOM 7.1		153
hhhqnfpv001	Windows 2003	FIRMS	2: DEV	2: APP	Archibus 16		
hhhqnrd001	Windows 2003	Team	3: TEST	2: APP (FTP Extract)			8100
hhhqnwd024	Windows	GSC	2: DEV	1: WEB/APP	ColdFusion		unlimited
hlanndd015	Windows 2008	REAC	2: DEV	2: APP/DB (Batch)	Winzip 14, Sybase ASE 15.7, FTP		90000
hlanndd016	Windows 2008	REAC	2: DEV	3: DB	Sybase ASE 15.7, FTP		90000
hlanndp001	Windows 2003	REAC	1: PROD	3: DB	MS SQL Server 2005		90000
hlanndp017	Windows 2003	AFOCS	1: PROD	2: APP (LAN)			50
hlanndp020	Windows 2008	REAC	1: PROD	3: DB (Batch)	VBS, Sybase ASE 15.7 client, Sybase ASE 15.7, Winzip 14		90000
hlanndp028	Windows 2003	FIRMS	1: PROD	3: DB	Oracle 9.2.0.8.0i	(FIRMS\35.9GB)	
hlanfp018	Windows 2003	SFPCS-P	1: PROD	2: APP	drive Remlan01		5427
hlanrp009	Windows 2008	CASS	1: PROD	2: APP	Mapi Protocol for Outlook, .NET/.IIS 5.0,		360

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					Lotus Notes 6.5		
hlannrp035	Windows 2003	FIRMS	2: DEV	3: DB	MS SQL Server	(FIRMS_Train\ 35.9GB)	
hlannwp001-005	Windows 2003	REAC	1: PROD	1: WEB	.NET/.IIS		90000
hpaduap031	Solaris 5.10	REAC	1: PROD	2: APP	WebSQL		90000
hqvalad3165	Linux 6	NGMS	2: DEV	3: DB (Data Validation)	Oracle 11g	(\32GB)	1571
hqvalad3178	Linux 6	NGMS	1: PROD	3: DB (Data Validation)	Oracle 11g	(\32GB)	1571
hqvalad3384-3385	Linux 6	NGMS	2: DEV	2: APP	Hyperion 11.2		1571
hqvalad3386	Linux 6	NGMS	3: TEST	2: APP	Hyperion 11.2		1571
hqvalad3387	Linux 6	NGMS	3: TEST	2: APP/DB (OLAP)	Hyperion EssBase		1571
hqvalad3389	Linux 6	NGMS	2: DEV	3: DB (Meta Data)	Oracle 11g	(\32GB)	1571
hqvalad3390	Linux 6	NGMS	3: TEST	3: DB (Data Validation)	Oracle 11g	(\32GB)	1571
hqvalad3391	Linux 6	NGMS	3: TEST	3: DB (Meta Data)	Oracle 11g	(\32GB)	1571
hqvalad3392	Linux 6	NGMS	2: DEV	2: APP/DB (OLAP)	Hyperion EssBase		1571
hqvalad3393	Linux 6	NGMS	3: TEST	2: APP	Hyperion 11.2		1571
hqvalad3516-3517	Linux 6	NGMS	1: PROD	2: APP	Hyperion 11.2		1571
hqvalad3518	Linux 6	NGMS	1: PROD	2: APP/DB (OLAP)	Hyperion EssBase		1571
hqvalad3519	Linux 6	NGMS	1: PROD	3: DB (Meta Data)	Oracle 11g	(\32GB)	1571
hudapps1.hud.gov	Solaris 5.10	LOCCS	1: PROD	2: APP	eLOCCS, ColdFusion 7, Java 6 SE		21700
hudatwork	Windows 2003	GSC	1: PROD/DEV	1: WEB	Coldfusion		unlimited
hudatwork	Windows 2003	LOCCS	1: PROD	1: WEB	LOCCS-Web, ColdFusion 5, Java 6 SE		21700
hudatwork	Windows 2003	SFHEDW	1: PROD	1: WEB	Coldfusion 5, SFDW web page		436

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
huddw.hud.gov	Solaris 10	MFSybase RS	1: PROD	3: DB	Sybase ASE 15.7	(Herems\50GB, rems_dmart \12GB)	
hudSharePoint.hud.gov	Windows 2008	DECMS	1: PROD	1: WEB/APP	SharePoint 2010		800
hudSharePoint.hud.gov	Windows 2008	ECIS	1: PROD	1: WEB/APP	SharePoint 2010		142
hudSharePoint.hud.gov	Windows 2008	GSC	1: PROD	1: WEB/APP	SharePoint 2010 for collaboration		unlimited
hudSharePoint.hud.gov	Windows 2008	LETS	1: PROD	1: WEB/APP/DB	SharePoint 2010		33
hudSharePoint.hud.gov	Windows 2008	OGC-EDMS	1: PROD	1: WEB/APP/DB	SharePoint 2010, InfoPath 2010, MS SQL Server		478
hudSharePoint.hud.gov	Windows 2008	PHAPLans	1: PROD/DEV/TEST	URL			100
hudspdev.hud.gov	Windows 2008	DECMS	3: TEST	1: WEB/APP/DB	SharePoint 2010		800
hudspdev.hud.gov	Windows 2008	ECIS	2: DEV/TEST	1: WEB/APP	SharePoint 2010		142
hudspdev.hud.gov	Windows 2008	ECPCIS	2: DEV	1: WEB/APP	SharePoint 2010		179
hudspdev.hud.gov	Windows 2008	LETS	2: DEV/TEST	1: WEB/APP/DB	SharePoint 2010		33
hudspdev.hud.gov	Windows 2008	OGC-EDMS	2: DEV/TEST	1: WEB/APP/DB	SharePoint 2010, InfoPath 2007, MS SQL Server		478
hudwebapps8	Windows	SFIS	1: PROD	2: APP/DB	ASP/.NET/.IIS 6.0, MS SQL Server		727
hudwebtest1	Windows 2003	LOCCS	3: TEST	1: WEB	LOCCS-Web, ColdFusion 5, Java 6 SE		21700
hwvalad1828	Linux	IOD	2: DEV/TEST	2: APP/DB	Oracle Fusion Middleware 11.1.1.5, Oracle 11g		
hwvalad1889	Linux 6.4	REAC	2: DEV	2: APP	ColdFusion 9		90000
hwvalad1895	Linux 6.0	iREMS/iBFM	3: TEST	2: APP	WebLogic 11g		3309
hwvalad1943-1944	Linux	eSNAPS	2: DEV	2: APP	Jboss 1.5, Grantium G3 3.4.3.2, Java		18600

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					1.5		
hwvalad2005-2006	Linux 6.4	REAC	3: TEST	2: APP	ColdFusion 9		90000
hwvalad2008	Linux 6.4	REAC	2: DEV	2: APP	ColdFusion 9		90000
hwvalad2021-2022	Linux 6.4	REAC	2: DEV	2: APP	WebLogic 10.3		90000
hwvalad3063	Linux	HEMS	2: DEV	2: APP	WebLogic 10.3.6		
hwvalad3131	Linux 5.8	FHASL	3: TEST	2: APP	PeopleSoft PeopleTools 8.52		186
hwvalad3378-3379	Linux 6.5	WASS	2: DEV	2: APP	WebLogic 10.3.6		144000
hwvalad3471-3472	Linux 6.5	WASS	1: PROD	2: APP	WebLogic 10.3.6		144000
hwvalad3477-3478	Solaris 10	IDIS	2: DEV	2: APP	Java 1.5, SJSAS, JROCKIT-JD K1.5		9168
hwvalad3564	Linux	MSTR	4:Pilot	2: APP (BI)	MicroStrategy BI suite 9.3		37000
hwvalad3572	Linux	LEAP	2:DEV	2: APP (OID)	Oracle Fusion Middleware 11.1.1		12300
hwvalad3585	Linux 6.0	MFHAUS	2: DEV	2: APP	WebLogic 10.3.6		
hwvalad3593	Linux	LEAP	2:DEV	1: WEB (Oracle HTTP sever)			12300
hwvalad3595	Linux	LEAP	2:DEV	1: WEB/APP (OBIEE (DAC/INF) 1: WEB, Informatica APP)	Informatica 9.1.0, Informatica DAC		12300
hwvalad3596	Linux	LEAP	2:DEV	2: APP (Gateway Server)	Siebel Gateway		12300
hwvalad3597	Linux	LEAP	2:DEV	2: APP	Siebel Application Server		12300
hwvalad3598-3599	Linux	LEAP	2:DEV	2: APP (OSB)	WebLogic 10.3, JROCKIT-JD K 1.6.0, Oracle_OSB		12300
hwvalad3600-3601	Linux	LEAP	2:DEV	2: APP (SOA)	WebLogic 10.3, JROCKIT-JD		12300

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					K 1.6.0, Oracle_SOA		
hwvalad3602	Linux	LEAP	2:DEV	2: APP (BI)	WebLogic 10.3, JROCKIT-JD K 1.6.0, Oracle_BI		12300
hwvalad3604	Linux	LEAP	2:DEV	1: WEB	WebLogic10.3 , JROCKIT-JD K 1.6.0		12300
hwvalad3618	Linux	LEAP	2:DEV	2: APP (SOA BAM)	WebLogic 10.3, JROCKIT-JD K 1.6.0, Oracle_SOA		12300
hwvalad3761- 3762	Linux 6.5	HEROS	2: DEV	2: APP	Java 1.7, WebLogic 12.1.2, JROCKIT-JD K 1.7.0.25		4150
hwvalad4212	Linux	MSTR	2: DEV	2: APP (User Manager for PIH)	MicroStrategy BI suite 9.3		37000
hwvalad4283	Linux	MSTR	2: DEV	2: APP (BI for PIH)	MicroStrategy BI suite 9.3		37000
hwvalap1708	Linux	LEAP	1: PROD	2: APP/DB	Oracle/Siebel FFSP		12300
hwvalap1966- 1973	Linux	eSNAPS	1: PROD	2: APP	Jboss 1.5, Grantium G3 3.4.3.2		18600
hwvalap2025- 2026	Linux 6.4	REAC	1: PROD	2: APP	WebLogic 10.3		90000
hwvalap2029	Linux 6.0	iREMS/iB FM	1: PROD	2: APP	WebLogic 11g		3309
hwvalap3131- 3132 hwvalap3136- 3137	Linux 5.8	FHASL	2: DEV	2: APP	PeopleSoft Financial 8.8 Revenue Management 8.9		186
hwvalap3141- 3142 hwvalap3181- 3182	Linux 5.8	FHASL	1: PROD	2: APP	PeopleSoft Financial 8.8 Revenue Management 8.9		186
hwvalap3143	Linux 5.8	FHASL	1: PROD	2: APP	STAT 5.6		186
hwvalap3307- 3308	Linux 6.5	HEROS	1: PROD	2: APP	Java 1.7, WebLogic 12.1.2, JROCKIT-JD K 1.7.0.25		4150
hwvalap3878-	Linux	LEAP	1: Prod	2: APP	http://webapps		12300

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
3879					.hud.gov/*		
hwvalap3880	Linux	LEAP	1: PROD	2: APP (OID)			12300
hwvalap3882-3883	Linux	LEAP	1: PROD	2: APP (OSB)	http://services.hud.gov/* http://intraservices.hud.gov/*		12300
hwvalap3884-3885	Linux	LEAP	1: PROD	2: APP (BI)	http://bi.hud.gov/*		12300
hwvalap3889-3890	Linux	LEAP	1: PROD	2: APP (SOA)	http://soafha.hud.gov/*		12300
hwvalap3891	Linux	LEAP	1: Prod	2: APP (BAM/SOA)			12300
hwvalap3896	Linux	LEAP	1: PROD	2: APP (Gateway Server)	Siebel Gateway		12300
hwvalap3897-3898	Linux	LEAP	1: PROD	2: APP	Siebel Application Server		12300
hwvalap4063-4064	Linux	LEAP	1: PROD	2: APP (BI Publisher)	http://sblbi.hud.gov/*		12300
hwvalat1886-1887	Linux 6.5	HEROS	3: TEST	2: APP	Java 1.7, WebLogic 12.1.2, JROCKIT-JDK 1.7.0.25		4150
hwvalat1937	Linux	MSTR	3: TEST	3: DB (Meta Data)	MicroStrategy BI suite 9.3		37000
hwvalat1938	Linux	MSTR	3: TEST	3: DB (Enterprise Manager)	MicroStrategy BI suite 9.3		37000
hwvalat1939	Linux	MSTR	3: TEST	2: APP (Enterprise Mgr)	MicroStrategy BI suite 9.3		37000
hwvalat1940	Linux	MSTR	3: TEST	2: APP (Mobile)	MicroStrategy BI suite 9.3		37000
hwvalat1941	Linux	MSTR	3: TEST	2: APP (Terminal)	MicroStrategy BI suite 9.3		37000
hwvalat1942	Linux	MSTR	3: TEST	2: APP (Narrow Cast)	MicroStrategy BI suite 9.3		37000
hwvalat1962-1963	Linux	eSNAPS	3: TEST	2: APP	Jboss 1.5, Grantium G3 3.4.3.2, Java 1.5		18600
hwvalat2023-2024	Linux 6.4	REAC	3: TEST	2: APP	WebLogic 10.3		90000
hwvalat2028	Linux 6.0	iREMS/iB FM	2: DEV	2: APP	WebLogic 11g		3309
hwvalat3081	Linux	HEMS	3: TEST	2: APP	WebLogic		

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					10.3.6		
hwvalat3644	Linux	LEAP	3: TEST	1: WEB/APP (OBIEE (DAC/INF) WEB, Informatica APP)	Informatica DAC, Informatica 9.1.0		12300
hwvalat3645	Linux	LEAP	3: TEST	2: APP (Gateway Server)	Siebel Gateway		12300
hwvalat3646-3647	Linux	LEAP	3: TEST	2: APP	Siebel Application Server		12300
hwvalat3648-3649	Linux	LEAP	3: TEST	2: APP (OSB)	WebLogic 10.3, JROCKIT-JDK 1.6.0, OSB		12300
hwvalat3650-3651	Linux	LEAP	3: TEST	2: APP (SOA)	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle SOA		12300
hwvalat3652	Linux	LEAP	3: TEST	2: APP (SOA BAM)	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle SOA		12300
hwvalat3653-3654	Linux	LEAP	3: TEST	2: APP (BI)	WebLogic 10.3, JROCKIT-JDK 1.6.0, Oracle BI		12300
hwvalat3655-3656	Linux	LEAP	3: TEST	2: APP	WebLogic 10.3, JROCKIT-JDK 1.6.0		12300
hwvalat3767-3768	Linux	IDIS	3: TEST	2: APP	Java 1.5, SJSAS, JROCKIT-JDK 1.5		9168
hwvalat3793	Linux	LEAP	3: TEST	2: APP (OID)			12300
hwvaldd1666	Linux	HIAMS	2: DEV	3: DB	Oracle 11g	(P273PRD\)	1294
hwvaldd1870	Linux 5.1	DRGR	2: DEV	3: DB	Oracle 11g	(c08sqa\, c08\, c08olap/120GB)	4574
hwvaldd1945	Linux	eSNAPS	2: DEV	3: DB	Oracle 11g, OLTP		18600
hwvaldd2079	Linux 5	PARIS	2: DEV	3: DB	SQL Developer,	(\236.5 GB)	25

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					Serena Dimensions, Oracle		
hwvaldd3013	Linux	FHITS	2: DEV	2: APP (Report)	Oracle 11g		1000
hwvaldd3051	Linux 6.4	REAC	2: DEV	3: DB	Oracle 11g		90000
hwvaldd3256	Linux 6.4	REAC	3: TEST	3: DB	Oracle 11g		90000
hwvaldd3257	Linux	REAC	3: TEST	3: DB	Oracle 11g		90000
hwvaldd3258	Linux	MSTR	2: DEV	3: DB (Meta Data for PIH)	Oracle 11g		37000
hwvaldd3399	Linux 6.5	IDIS	2: DEV	3: DB	Oracle 11.g, R12, OLTP, OLAP		9168
hwvaldd3448	Linux 6.0	MFHAUS	2: DEV	3: DB	Oracle 11g	(P280DEV\, P280IDC\, P280TST\12GB)	
hwvaldd3451	Linux	LOCCS	2: DEV	3: DB	Oracle 11g	(A67DEV\)	21700
hwvaldd3481	Linux 6.4	REAC	2: DEV	3: DB	Oracle 11g		90000
hwvaldd3482	Linux 6.4	REAC	3: TEST	3: DB	Oracle 11g		90000
hwvaldd3493	Linux	FHA-CRM	2: DEV	1: WEB/APP/DB	Siebel on Premise (Oracle)		863
hwvaldd3512	Linux 6.4	HCFSS	2: DEV	3: DB	Oracle 11.2.0.3.0, Oracle SQL*Plus	(A39HFMDV\198GB)	57
hwvaldd3514	Linux 6.4	GIMS II	2: DEV	3: DB	Oracle 11.2 , Oracle SQL Developer	(P017DEV\400 GB, eGrants\100GB)	1500
hwvaldd3537	Linux 6.0	TRACS	2: DEV	3: DB	Oracle 11g	(F87DEV\14GB)	31509
hwvaldd3539	Linux 6.0	HIHRTS DS	2: DEV/TEST	2: APP/DB	PeopleSoft EPM 9.0, Ascential DataStage Server ETL, PeopleTool 8.49, Oracle 11g	(EPDEV\16GB) (EPTST\16GB)	10
hwvaldd3547	Linux	GMP	2: DEV	3: DB	Oracle 11g	(c07aDEV\, c07arptd\)	900
hwvaldd3573	Linux	MSTR	4:Pilot	3: DB (Meta Data)	Oracle 11g		37000
hwvaldd3582	Linux	LEAP	2:DEV	3: DB (OID)		(P278OIDD\)	12300
hwvaldd3605	Linux	LEAP	2:DEV	3: DB (Siebel)		(P278SIED\)	12300
hwvaldd3606	Linux	LEAP	2:DEV	3: DB		(HEDOSBD\)	12300

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
				(OSB)			
hwvaldd3607	Linux	LEAP	2:DEV	3: DB (SOA)		(FHASOAD\)	12300
hwvaldd3608	Linux	LEAP	2:DEV	3: DB (BI)	OBIEE	(HEDOBID\)	12300
hwvaldd3609	Linux	LEAP	2:DEV	3: DB (Informatica)		(HEDINFD \)	12300
hwvaldd3610	Linux	LEAP	2:DEV	3: DB (LEAP)		(P278DEV\)	12300
hwvaldd3669	Linux	LEAP	2:DEV	3: DB (LEAP DW)		(P278DWD\)	12300
hwvaldd3749	Linux 6.0	HM-OPIIS	2: DEV	3: DB	Oracle 11g	(INFOREP\)	1500
hwvaldp1670-1672	Linux	HIAMS	1: PROD	3: DB	Oracle 11g	(P273PRD\)	1294
hwvaldp1872	Linux 5	PARIS	1: PROD	3: DB	SQL Developer, Serena Dimensions, Oracle 11g	(\236.5 GB)	25
hwvaldp1874	Linux 5.1	DRGR	1: PROD	3: DB	Oracle 11g	(c08\, c08olap\, C08PROD\120 GB)	4574
hwvaldp1899	Linux	IOD	1: PROD	2: APP/DB	ColdFusion 11.1.1.5, Oracle 11g		
hwvaldp196	Linux 6.4	REAC	1: PROD	3: DB	Oracle 11g		90000
hwvaldp1974	Linux	eSNAPS	1: PROD	3: DB	Oracle 11g, OLTP	(C38PRD\, C38 RPT\50GB)	18600
hwvaldp213	Linux 6.4	REAC	1: PROD	3: DB	Oracle 11g		90000
hwvaldp3050	Linux 6.4	REAC	1: PROD	3: DB	Oracle 11g		90000
hwvaldp3066	Linux 6.4	REAC	1: PROD	3: DB	Oracle 11g		90000
hwvaldp3133	Linux 5.8	FHASL	2: DEV	3: DB	Oracle 11.2.0.3.0	(F88DEV\, R89DEV\, F88FYE\, F91PGQ\ 1.3TB)	186
hwvaldp3139	Linux 5.8	FHASL	1: PROD	3: DB	Oracle 11.2.0.3.0	(F88PRO\, R89PRO\, F91PGP\, F88SUP\, R89SUP\1.4TB)	186
hwvaldp3183	Linux 5.8	FHASL	1: PROD	3: DB	Oracle 11.2.0.3.0	(F88PRO\, R89PRO\, F91PGP\, F88SUP\, R89SUP\1.4TB)	186

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvaldp3330	Linux	FHAC	1: PROD	3: DB (webDB)	Oracle	(F17Webdp\)	76510
hwvaldp3456	Linux 6.4	HCFSS	1: PROD	3: DB	Oracle 11.2.0.3.0, Oracle SQL*Plus	(A39HFMPD\148GB)	57
hwvaldp3459	Linux 6.0	iREMS/iB FM	1: PROD	3: DB	Oracle 11g	(IREMS\24GB)	3309
hwvaldp3475	Linux 6.0	MFHAUS	1: PROD	3: DB	Oracle 11g	(P280PROD\12GB)	
hwvaldp3499	Linux 6.5	Team	1: PROD	3: DB	Oracle 11g	(D91A_PROD\, TEAMPROD\)	8100
hwvaldp3500	Linux	FHA-CRM	1: PROD	1: WEB/APP/DB	Siebel on Premise (Oracle)	(CRMOLAPP\, CRMOLTPP\)	863
hwvaldp3524	Linux 6.4	GIMS II	1: PROD	3: DB	Oracle 11.2 , SQL Developer,	(P017PROD\460GB, eGrantsP\100GB)	1500
hwvaldp3531	Linux 6.0	HIHRTS DS	1: PROD	2: APP/DB	PeopleSoft EPM9.0, Ascential DataStage (ETL), Oracle 11g	(EPPRD\16GB)	10
hwvaldp3532	Linux	LOCCS	1: PROD	3: DB	Oracle 11g	(A67PROD\)	21700
hwvaldp3542	Linux	GMP	1: PROD	3: DB	Oracle 11g	(c07aPROD\, c07arptp\)	900
hwvaldp3705	Linux 6.4	IDIS	1: PROD	3: DB	Oracle 11.g. R2, OLAP	(CRPTPROD\)	9168
hwvaldp3745	Linux 6.0	HM-OPIIS	1: PROD	3: DB	Oracle 11g	(OEMFTDB1\INFOREP\, OEMFTDB1\, INFOREP\)	1500
hwvaldp3806	Linux	TRACS	1: PROD	3: DB	Oracle 11g	(F87PROD\14GB)	31509
hwvaldp3921	Linux	LEAP	1: PROD	3: DB (ADF)	WebLogic, Application Development Framework		12300
hwvaldp3923	Linux	LEAP	1: PROD	3: DB (OID)			12300
hwvaldp3924	Linux	LEAP	1: PROD	3: DB (WL/ADF DW)			12300
hwvaldp3928	Linux	LEAP	1: PROD	3: DB (BI Publisher (OBIEE))			12300
hwvaldp3929	Linux	LEAP	1: PROD	3: DB (OSB)			12300

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvaldp3934	Linux	LEAP	1: PROD	3: DB (SOA)			12300
hwvaldp3938	Linux	LEAP	1: PROD	3: DB (Siebel)			12300
hwvaldt1873	Linux 5.1	DRGR	3: TEST	3: DB (Training)	Oracle 11g	(c08\, c08olap\, C08test\120GB, c08uat\120GB)	4574
hwvaldt1938	Linux	MFOracle RS	3: TEST	3: DB (Enterprise Manager for iBFM/iREM)	MicroStrategy BI suite 9.3		
hwvaldt1964	Linux	eSNAPS	3: TEST	3: DB	Oracle , OLTP,	(C38TPRD\, C38TRPT\ 50GB)	18600
hwvaldt3015	Linux	FHITS	3: TEST	2: APP (Report)	Oracle 11g		1000
hwvaldt3138	Linux 5.8	FHASL	2: DEV	3: DB	Oracle 11g	(F88VVT\, F88UAT\, R89VVT\,R89 UAT \1.9TB)	186
hwvaldt3495	Linux	FHA-CRM	3: TEST	1: WEB/APP/DB	Siebel on Premise (Oracle)		863
hwvaldt3508	Linux	LOCCS	3: TEST	3: DB	Oracle 11g	(A67UAT\)	21700
hwvaldt3513	Linux 6.4	GIMS II	3: TEST	3: DB	Oracle 11g , Oracle SQL Developer	(P017TEST\ 400GB)	1500
hwvaldt3540	Linux 6.0	TRACS	3: TEST	3: DB	Oracle 11g	(F87TRACS\14 GB)	31509
hwvaldt3549	Linux	GMP	3: TEST	3: DB	Oracle 11g	(c07auat\, c07arptt\)	900
hwvaldt3626-3627	Linux	LEAP	3: TEST	3: DB (Siebel)		P278SIET	12300
hwvaldt3628-3629	Linux	LEAP	3: TEST	3: DB (OSB)		P287SBT	12300
hwvaldt3630-3631	Linux	LEAP	3: TEST	3: DB (SOA)		p287FST	12300
hwvaldt3632-3633	Linux	LEAP	3: TEST	3: DB (BI)	OBIEE	P287BIT	12300
hwvaldt3634-3635	Linux	LEAP	3: TEST	3: DB (Informatica)		P287INT	12300
hwvaldt3636-3637	Linux	LEAP	3: TEST	3: DB (LEAP)		P278TEST	12300
hwvaldt3755	Linux 6.0	HM-OPIIS	3: TEST	3: DB	Oracle 11g	(INFOREP\)	1500
hwvaldt3794	Linux	LEAP	3: TEST	3: DB		P278OIDT	12300

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
				(OID)			
hwvaldt3796-3797	Linux	LEAP	3: TEST	3: DB (LEAP DW)		P278OIDT	12300
hwvaldt3864-3865	Linux	LEAP	3: TEST	3: DB (OID with ODSM)		P278OIDT	12300
hwvalrp3145	Linux 5.8	FHASL	1: PROD	2: APP	TWS 8.6.0.02	(Work Scheduler)	186
hwvalwd1925-1926	Linux	REAC	2: DEV	2: APP (Report)	MicroStrategy BI suite 9.3		90000
hwvalwd2000	Linux 6.5	WASS	2: DEV	1: WEB	Web Server 7, Cold Fusion 9		144000
hwvalwd3290	Linux 6.5	LASS	2: DEV	2: APP	ColdFusion 9		51
hwvalwd3592	Linux	LEAP	2:DEV	1: WEB (Siebel)	Oracle WebTier		12300
hwvalwd3814	Linux 6.5	WASS	2: DEV	1: WEB	Web Server 7, Cold Fusion 9		144000
hwvalwd4243	Linux	MSTR	4:Pilot	1: WEB/APP	MicroStrategy BI suite 9.3		37000
hwvalwd4284	Linux	MSTR	2: DEV	1: WEB (User Manager)	MicroStrategy BI suite 9.3		37000
hwvalwp1912-1915	Linux	REAC	1: PROD	2: APP	MicroStrategy BI suite 9.3		90000
hwvalwp2044-2049 hwvalwp2076-2078	Linux 6.5	WASS	1: PROD	1: WEB	Web Server 7, ColdFusion 9		144000
hwvalwp3946-3947	Linux	LEAP	1: PROD	1: WEB (OSH for Internal users)	http://intraservices.hud.gov https://intraser vices.hud.gov http://bi.hud.gov http://sblbi.hud.gov		12300
hwvalwp3948-3949	Linux	LEAP	1: PROD	1: WEB (FHA BU)	http://SOAfha.hud.gov		12300
hwvalwp3950-3951	Linux	LEAP	1: PROD	1: WEB (Siebel)	http://sblfha.hud.gov/*		12300
hwvalwp4028-4029	Linux	LEAP	1: PROD	1: WEB (OSH for external users)	http://services.hud.gov http://webapps.hud.gov		12300
hwvalwt3638-3639	Linux	LEAP	3: TEST	1: WEB (Siebel)	Oracle WebTier		12300
hwvalwt3642-3643	Linux	LEAP	3: TEST	1: WEB (Oracle HTTP server)	OSB, OBIEE WebTier, WebAPPS		12300

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvanad1307	Windows	MSTR	2: DEV	2: APP (Admin Terminal)			37000
hwvanad1389-1390	Windows 2003	FDM	2: DEV	2: APP (BI)	IBM Cognos 8.4,		1158
hwvanad1631	Windows 2008	HCFSS	2: DEV	1: WEB	Hyperion Foundation Services, EPM web server		57
hwvanad1632	Windows 2008	HCFSS	2: DEV	2: APP	Hyperion Financial Management (HFM), Financial Data Quality Management (FDQM)		57
hwvanad1633	Windows 2008	HCFSS	2: DEV	2: APP	Financial Reporting		57
hwvanad1941	Windows	MSTR	2: DEV	2: APP (Terminal Server for PIH)			37000
hwvanad3021	Windows	LEAP	2:DEV	2: APP (Siebel tools/documents)			12300
hwvanad3160	Windows 2008	REAC	3: TEST	1: WEB	.NET/.IIS		90000
hwvanad3591	Windows	LEAP	2:DEV	2: APP (DAC/INF client)	DAC		12300
hwvanad4167	Windows	MSTR	2: DEV	2: APP (Admin Terminal)			37000
hwvanad4168	Windows	MSTR	2: DEV	2: APP (Admin Terminal)			37000
hwvanad464	Windows	REAC	3: TEST	2: APP (Batch)	Autosys		90000
hwvanad639	Windows	AFOCS	3: Test	1: WEB/APP	HTML, Java, ColdFusion 8.0, Sybase Central, Interactive SQL, AFOCS, ICBTS		50
hwvanap1286	Windows 2003	HUD eGIS	1: PROD	1: WEB/APP (GIS)	ArcGIS Server SOM, SOC, Oracle 11g client r11.2.0.1.0,		25250

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					.NET web services, eGIS Web applications, .NET/.IIS		
hwvanap1288	Windows 2003	DRGR	1: PROD	2: APP (MAP)	.NET/.IIS		4574
hwvanap1312	Windows 2008	HMIMIS	1: PROD	1: WEB/APP	ColdFusion 9		50+
hwvanap1331	Windows 2008	PARIS	1: PROD/DEV	1: WEB/APP (BI)	SAS BI Suite		25
hwvanap1622	Windows 2008	HCFSS	1: PROD	1: WEB	Hyperion Foundation Services, EPM web server		57
hwvanap1623	Windows 2008	HCFSS	1: PROD	2: APP	Hyperion Financial Management (HFM), Financial Data Quality Management (FDQM)		57
hwvanap1624	Windows 2008	HCFSS	1: PROD	2: APP	Financial Reporting		57
hwvanap1641	Windows 2008	REAC	1: PROD	2: APP (Batch)	Winzip 14, Informatica PowerCenter 8.6.1, MS SQL Server 2005 client, Oracle 11GR2 client, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 Build 22		90000
hwvanap1817	Windows 2008	REAC	1: PROD/TEST	2: APP (deployment)	MS SQL Server 2005 client, Oracle 11GR2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 build 22, Winzip 14		90000

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvanap1818	Windows 2008	REAC	1: PROD/TEST	2: APP (deployment)	MS SQL Server 2005 client, Oracle 11gr2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 build 22, Winzip 14		90000
hwvanap306	Windows	REAC	1: PROD	2: APP (I&A)	SiteMinder 12.5		90000
hwvanap3070	Windows 2003	ArcGIS	1: PROD/DEV/TEST	2: APP (License Manager)			433
hwvanap3139 hwvanap3150	Windows 2008	FHASL	1: PROD	1: WEB	PeopleSoft		186
hwvanap3163	Windows 2008	REAC	1: PROD/TEST	2: APP (deployment)	MS SQL Server 2005 client, Oracle 11gr2 client, Serena Dimensions 2009 R2, Sybase ASE 15.7 client, SSH Tectia client 4.2.0 build 22, Winzip 14		90000
hwvanap3277	Windows 2008	EBITS	1: PROD/TEST	1: WEB/APP	System Architect 11.4.1.1, information web publisher 11.4.1.1, IRMA, flexLM license management tool, Citrix XenApp Desktop		16
hwvanap348	Windows 2008	REAC	1: PROD	2: APP (Batch)	FTP, MS SQL 2005 client, Oracle 11gr2 client, Sybase ASE 15.7 client, MS office 2010, SSH Tectia		90000

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					client 4.2.0 Build 22, Winzip 14, VBS		
hwvanap351	Windows 2003	LAS	1: PROD	2: APP	Nortridge Loan System (NLS) 4.5.23		33
hwvanap565	Windows 2008	HIHRTS DS	2: DEV/TEST	2: APP	PeopleTools 8.49, Ascential DataStage (ETL)		10
hwvanap566	Windows 2008	HIHRTS DS	1: PROD	2: APP	PeopleTools 8.49, Ascential DataStage (ETL)		10
hwvanap932	Windows 2008	REAC	2: DEV	2: APP (Batch)	FTP, MS SQL Server 2005 Client, Oracle 11gr2 Client, Sybase ASE 15.7 client, MS Office 2010, SSH Tectia client 4.2.0 build 22, Winzip 14, VBS,		90000
hwvanap933	Windows 2008	REAC	3: TEST	2: APP (Batch)	FTP, MS SQL Server 2005 client, Oracle 11gr2 client, Sybase ASE 15.7 client, MS Office 2010, SSH Tectia client 4.2.0 Build 22, Winzip 14, VBS		90000
hwvanat1617	Windows 2003	REAC	1: PROD	1: WEB	.NET/.IIS, MS SQL 2000 client, Oracle 11gr2 client, MicroStrategy 9.3 client		90000
hwvanat1939	Windows 2008	MFOracle RS	3: TEST	2: APP (Enterprise Mgr for iBFM/iREMS)	MicroStrategy BI suite 9.3		
hwvanat1940	Windows 2008	MFOracle RS	3: TEST	2: APP (Mobile for iBFM/	MicroStrategy BI suite 9.3		

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
				iREMS)			
hwvanat1942	Windows 2008	MFOracle RS	3: TEST	2: APP (Narrow Cast for iBFM/iREMS)	MicroStrategy BI suite 9.3		
hwvanat3152-3153	Windows 2008	FHASL	2: DEV	2: APP	PeopleSoft, APPS		186
hwvanat3739	Windows	LEAP	3: TEST	1: WEB (OBIEE (DAC/INF) client)	DAC		12300
hwvanat3740	Windows	LEAP	3: TEST	2: APP (Siebel tools/documents)			12300
hwvandd1016	Windows 2003	REAC	2: DEV	3: DB	MS SQL Server 2000		90000
hwvandd1017	Windows 2008	REAC	3: TEST	2: APP/DB (Batch)	Sybase ASE 15.7, Winzip 14, FTP		90000
hwvandd1029	Windows 2008	REAC	3: TEST	2: APP/DB (Batch)	VBS. Sybase ASE 15.7, Sybase ASE 15.7 client, Winzip 14		90000
hwvandd1033	Windows 2008	MFDCS	2: DEV	3: DB	Sybase ASE 15.7	(HEREMS\127 GB)	
hwvandd1044	Windows 2003	CHUMS	2: DEV	2: APP/DB	ASP, Sybase ASE 15.7		153
hwvandd1142	Windows 2003	FDM	2: DEV	3: DB	MS SQL Server 2005	(a75r_jrnis\, a75r_PROD\, a75r_tran\, cognos_audit\, cognos_cm, travel\365.7GB)	1158
hwvandd3026	Windows 2008	WASS	2: DEV	3: DB	Sybase ASE 15.7	(\375GB)	144000
hwvandd3529 hwvandd3764	Windows 2008	REAC	2: DEV	3: DB	MS SQL Server 2005		90000
hwvandd4163	Windows 2008	ARRTS	2: DEV	3: DB	MS SQL Server 2008		206
hwvandd4189	Windows 2008	ARRTS	3: TEST	3: DB	MS SQL Server 2008		206
hwvandd582	Windows 2003	REAC	3: TEST	3: DB	MS SQL Server 2005		90000
hwvandd916	Windows 2003	REAC	3: TEST	3: DB	MS SQL Server 2000		90000

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvandd985	Windows 2003	REAC	2: DEV	3: DB	MS SQL Server 2005		90000
hwvandp3295	Windows 2008	REAC	1: PROD	3: DB	Sybase ASE 15.0.3		90000
hwvandp3661	Windows 2008	REAC	1: PROD	3: DB	MS SQL Server 2005		90000
hwvandp577	Windows 2003	REAC	3: TEST	2: APP	BizFlow 11		90000
hwvandt265	Windows 2003	REAC	1: PROD	3: DB	MS SQL Server 2000		90000
hwvandt277	Windows	REAC	2: DEV	2: APP	BizFlow 11, WebLogic		90000
hwvandt3660	Windows 2008	REAC	3: TEST	3: DB	MS SQL Server 2005		90000
hwvanwd1054	Windows 2003	CHUMS	3: TEST	1: WEB/APP/DB	ASP, Sybase ASE 15.7		153
hwvanwd1299	Windows 2003	SFHB	2: DEV	1: WEB/APP	ASP/.NET/.IIS 6.0, MS SQL Server 2005, MS SQL management studio	(\127.75MB)	
hwvanwd1682 hwvanwd1860	Windows	HIAMS	2: DEV	1: WEB	PRISM v70.54.02.18		1294
hwvanwd3034 hwvanwd3526	Windows 2008	REAC	2: DEV	1: WEB	.NET/.IIS		90000
hwvanwp1049-1052	Windows 2003	CHUMS	1: PROD	2: APP/DB	ASP, Sybase ASE 15.7	(\10.5GB)	153
hwvanwp1674-1678	Windows	HIAMS	1: PROD	1: WEB	PRISM v70.54.02.18		1294
hwvanwp3242	Windows 2008	REAC	1: PROD	1: WEB	.NET/.IIS		90000
hwvanwp3611-3615	Windows 2008	REAC	1: PROD	1: WEB	.NET/.IIS		90000
hwvanwp763	Windows	AFOCS	1: PROD	1: WEB/APP	HTML, Java, ColdFusion 8.0, AFOCS, ICBTS		50
hwvanwt1260	Windows 2003	REAC	2: DEV	1: WEB	.NET/.IIS		90000
hwvanwt1300	Windows 2003	SFHB	1: PROD/TEST	1: WEB/APP	ASP/.NET/.IIS 6.0, MS SQL Server 2005, MS SQL management studio	(\127.75GB)	
hwvanwt1685-1686	Windows	HIAMS	3: TEST	1: WEB	PRISM v70.54.02.18		1294

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvanwt1687-1689	Windows 2003	HIAMS	3: TEST	3: DB	Oracle	(P273UAT\)	1294
hwvanwt3525	Windows 2008	REAC	3: TEST	1: WEB	.NET/.IIS		90000
hwvanwt3765	Windows 2008	REAC	3: TEST	3: DB	MS SQL Server 2005		90000
hwvauad088	Solaris 10	OGC-ETS	2: DEV	2: APP	MyEclipse 5.5.1GA, GlassFish 2		700
hwvauad1248	Solaris	CHUMS	2: DEV	2: APP	Documentum		153
hwvauad1318	Solaris 10	GIMS II	2: DEV	2: APP	Java 8.2, Grantium G3		1500
hwvauad169	Solaris	TITLE V	2: DEV	1: WEB/APP	Sun ONE J2EE 5.2 Java		15
hwvauad403	Solaris	FHITS	2: DEV	2: APP	Sun ONE		1000
hwvauad426	Solaris 5.10	REAC	2: DEV/TEST	2: APP (I&A)	LDAP		90000
hwvauad427	Solaris 5.10	REAC	2: DEV	2: APP	WebSQL		90000
hwvauad429	Solaris 5.10	REAC	3: TEST	2: APP	WebSQL		90000
hwvauad432	Solaris 5.10	REAC	2: DEV	2: APP	WebSQL		90000
hwvauad627	Solaris 10	TRACS	2: DEV	2: APP (IMAX)	Java 9.1		31509
hwvauad948	Solaris 5.10	REAC	2: DEV/TEST	2: APP	GlassFish 2.1		90000
hwvauap088	Solaris 5.10	ARRTS	3: TEST	2: APP	Java 8.1_02		206
hwvauap1182	Solaris 10	ARM	1: PROD	2: APP	GlassFish 2.1.1, JROCKIT-JDK 1.6		4097
hwvauap1198	Solaris 10	GIMS II	1: PROD	1: WEB/APP	Java 8.2, Grantium G3		1500
hwvauap1247	Solaris	CHUMS	1: PROD	2: APP	Documentum		153
hwvauap1836-1837	Solaris 10	DRGR	1: PROD	2: APP	Sun ONE 8.1, Java 1.5		4574
hwvauap194	Solaris	TITLE V	1: PROD	1: WEB/APP	Sun ONE J2EE 5.2 Java		15
hwvauap1958-1959	Solaris 10	IDIS	1: PROD	2: APP	Java 1.5, SJSAS, JROCKIT-JDK 1.5		9168
hwvauap2044-2047	Solaris	REAC	1: PROD	2: APP	ColdFusion 9		90000
hwvauap2078	Solaris	REAC	1: PROD	2: APP	ColdFusion 9		90000
hwvauap221-222	Solaris 10	IDIS	1: PROD	2: APP	Java 1.5, SJSAS, JROCKIT-JDK 1.5		9168
hwvauap358	Solaris 10	TRACS	1: PROD	2: APP	Java 8.1		31509

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvauap407	Solaris	FHITS	1: PROD	2: APP	Sun ONE		1000
hwvauap409	Solaris 5.10	REAC	1: PROD	2: APP	WebSQL		90000
hwvauap431	Solaris 10	GMP	1: PROD	2: APP	J2EE Web/app server, GlassFish		900
hwvauap438	Solaris	SFPCS-P	1: PROD	2: APP	Web FTP, replication server.		5427
hwvauap516	Solaris	SFPCS-P	1: PROD	2: APP	ColdFusion, HTML, Java, FHAC		5427
hwvauap708-709	Solaris 10	TRACS	1: PROD	2: APP	Java 9.1		31509
hwvauat1316	Solaris 10	GIMS II	3: TEST	1: WEB/APP	Java 8.2, Grantium G3 3.4.5.0		1500
hwvauat1695	Solaris 10	DRGR	3: TEST	2: APP	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3		4574
hwvauat183	Solaris	TITLE V	3: TEST	1: WEB/APP	Sun ONE J2EE 5.2 Java		15
hwvauat200	Solaris 5.10	GSC	2: DEV	2: APP/DB	Shell Scripts, Oracle loader, Oracle client, Oracle 10g	(GEOHUDDV\70GB)	unlimited
hwvauat263	Solaris 10	DRGR	3: TEST	2: APP (Training)	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3		4574
hwvauat279	Solaris 10	TRACS	2: DEV/TEST	2: APP (ARAMS)	Java 8.1, TRACS 2.0.2.D		31509
hwvauat405	Solaris	FHITS	3: TEST	2: APP	Sun ONE		1000
hwvauat713 hwvauat712	Solaris 10	TRACS	2: DEV/TEST	2: APP (IMAX, TRACS maintained)	Java 9.1, TRACS 2.0.2.D		31509
hwvaudd1024	Solaris	SFNW	2: DEV	3: DB	Sybase Central, Interactive SQL, Sybase ASE 15.0.3	(SFDW\920GB)	21058
hwvaudd1039	Solaris	HCS	3: TEST	3: DB	Oracle	(F11TEST\4.3GB)	4171

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvaudd1066	Solaris 10	MFSybase RS	2: DEV/TEST	3: DB	Sybase ASE 15.7	(Herems\50GB, rems_dmart \12GB)	
hwvaudd1092	Solaris 10	OGC-ETS	2: DEV	3: DB	Oracle SQL Developer, Oracle 11g EE-64bit	(OGCETSD\, OGCETSTR\)	700
hwvaudd1191	Solaris 10	CASS	2: DEV	2: APP/DB	Peregrine Service Center 6.1.3, SC Auto 5.0, Oracle 11g		360
hwvaudd1252	Solaris 5.10	HUD eGIS	2: DEV	3: DB	Oracle 11g EE r11.2.0.1.0, ArcSDE 10.0		25250
hwvaudd1333	Solaris	TITLE V	2: DEV	3: DB	Oracle 11g, OLTP	(C38DEV\100 MB)	15
hwvaudd1334	Solaris 5.10	REAC	2: DEV	2: APP (Batch)	Informatica PowerCenter 8.6.1, Sybase ASE 15.7, Oracle 11gr2 client		90000
hwvaudd1335	Solaris	HUDSTAT	2: DEV	3: DB	Oracle 11g	(HUDSTATD\25GB)	330
hwvaudd515	Solaris	HIHRTS	2: DEV/TEST	3: DB	Oracle 10g		many
hwvaudd590	Solaris 5.10	REAC	3: TEST	2: APP (Batch)	Informatica PowerCenter 8.6.1, Sybase ASE 15.7, Oracle 11gr2 client		90000
hwvaudp1037	Solaris	HCS	1: PROD	3: DB	Oracle	(F11PROD\4.3 GB)	4171
hwvaudp1093	Solaris 10	OGC-ETS	1: PROD	3: DB	Oracle SQL Developer, Oracle 11g EE-64bit	(OGCETSP\4.0 GB)	700
hwvaudp1122	Solaris 10	HM-OPIIS	1: PROD	3: DB	Oracle 11g	(OEMFTDB1\, INFOREP\, OEMFTDB1\, INFOREP\)	1500
hwvaudp1190	Solaris 10	CASS	1: PROD	2: APP/DB	Peregrine Service Center 6.1.3, SC Auto 5.0, Oracle 11g		360
hwvaudp1192	Solaris	SFPCS-P	1: PROD	2: APP	ColdFusion, HTML, Java, FHAC		5427

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
hwvauddp1290	Solaris 5.10	HUD eGIS	1: PROD	3: DB	Oracle 11g EE r11.2.0.1.0, ArcSDE 10.0		25250
hwvauddp1580	Solaris	HUDSTAT	1: PROD	3: DB	Oracle 11g	(HUDSTATP\25GB)	330
hwvauddp192	Solaris	TITLE V	1: PROD	3: DB	Oracle 11g, OLTP	(C38iPROD\100MB)	15
hwvauddp285	Solaris 5.10	REAC	1: PROD	3: DB	Oracle 11g		90000
hwvauddp3253	Solaris 5.10	REAC	1: PROD	3: DB (Batch)	Informatica PowerCenter 8.6.1, Sybase ASE 15.7, Oracle 11gr2 client		90000
hwvauddp408	Solaris	FHITS	1: PROD	3: DB	Oracle 11g		1000
hwvauddp458	Solaris	SFNW	1: PROD	3: DB	Sybase Central, Interactive SQL, ASE 15.0.3	(SFDW\920GB)	21058
hwvauddp514	Solaris	HIHRTS	1: PROD	3: DB	Oracle 10g		many
hwvauddp783	Solaris	EBITS	1: PROD	3: DB	Oracle	(P257PROD\20GB)	16
hwvauddt1291	Solaris 5.10	HUD eGIS	3: TEST	3: DB	Oracle 11g EE r11.2.0.1.0, ArcSDE 10.0		25250
hwvauddt1362	Solaris	TITLE V	3: TEST	3: DB	Oracle 11g, OLTP	(C38iUAT\100MB)	15
hwvauddt1579	Solaris	HUDSTAT	3: TEST	3: DB	Oracle 11g	(HUDSTAT\25GB)	330
hwvauddt1638	Solaris 10	HM-OPIIS	3: TEST	3: DB	Oracle 11g	(OEMFTDB1\, INFOREP-curent\)	1500
hwvauddt406	Solaris	FHITS	3: TEST	3: DB	Oracle 11g		1000
hwvauddt406	Solaris	HEMS	3: TEST	3: DB	Oracle 11g	(VO5HEMST\2.5GB)	
hwvauddt775	Solaris	EBITS	3: TEST	3: DB	Oracle	(P257TEST\20GB)	16
hwvaudd231 hwvaudd253	Solaris	REAC	3: TEST	2: APP/I&A	SiteMinder 12.5, Active Directory		90000
hwvauwd173	Solaris 10	DRGR	2: DEV	2: APP	Sun ONE Application Server 8.1, Java 1.5, MicroStrategy BI suite 9.3		4574
hwvauwd177 2	Solaris 10	TRACS	3: TEST	2: APP	Java 9.1, TRACS 2.0.2.D		31509
hwvauwd391	Solaris 10	GMP	2: DEV	2: APP	J2EE Web/app		900

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					server, Java 6, GlassFish 3.1		
hwvauwt248	Solaris 10	GMP	3: TEST	2: APP	J2EE web/app server, Java 6, GlassFish 3.1		900
lassapps.hud.gov	Linux 6.5	LASS	1: PROD	2: APP	ColdFusion 9		51
lnshhq15p/hud	IBM Domino	ARCATS	1: PROD	2: APP/DB	Lotus Notes 6.5, NFS	(\185GB)	433
lnshhq01d/hudrd	IBM Domino	ARCATS	2: DEV	2: APP/DB	Lotus Notes 6.5, NFS	(many .nfs file with a total of 370MB)	433
lnshhq03m/hud	IBM Domino	ARCATS	3: TEST	2: APP/DB	Lotus Notes 6.5, NFS	(\930MB)	433
Local Server (BANJO)	Windows 8 pro	LAP	2: DEV	2: APP/DB	MS Visual Studio Pro 2012, MS SQL Server 2008, MS SQL Server Management Studio	(HUDLAP\136MB)	public
MAPSERVE R-1	Linux 6.3	LAP	1: PROD	2: APP/DB	Amazon EC2 m2.2Xlarge, apache 2.4.3, PHP, Map server 6.0.3, Google MAPs API, PostgreSQL GUI, PostgreSQL 8.4	(\19GB)	public
nthccp07	Windows 2008	EZ-RC-PERMS	1: PROD	1: WEB/APP	ASP 3.0		300
nthccp16	Windows 2008	DMM	1: PROD	3: DB	Lotus Notes 6.5, RDBMS		500
nthhq115	Windows 2003	PARIS	2: DEV	1: WEB	ODBiC (DEV tool)	(db\4GB)	25
nthhq147	Windows 2003	REAC	3: TEST	1: WEB	.NET/.IIS		90000
nthhq150	Windows 2003	REAC	1: PROD	2: APP	BizFlow 11		90000
nthhq25	Windows 2000	HCM	1: PROD	3: DB	MS SQL Server 2000	(HCM\6.4GB)	3
portal.hud.gov		BPM	1: PROD/DEV / TEST	0: WEBtool	portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/mitigation		public

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
portal.hud.gov		DNL	1: PROD/DEV	0: WEBtool	http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/dnldcalculatortool		
portal.hud.gov		STraCAT	1: PROD	1: WEB/APP	portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/environment/stracat (STRACAT_REL_1.4)		public portal
Portalapps.hud.gov		IOD	1: PROD	1: WEB	WebLogic 10.3.6		
SharePoint	Windows 2008	DECMS	2: DEV	2: APP	SharePoint 2010		800
SharePoint	Windows 2008	ECIS	2: DEV	3: DB	SharePoint 2010		142
SharePoint	Windows 2008	QDLS	1: PROD/DEV / TEST	2: APP	SharePoint 2010		
SharePoint	Windows 2008	SF-182	1: PROD/DEV	1: WEB/APP/DB	InfoPath Designer 2010, SharePoint Designer 2010, web/app/db: OCIO SharePoint EE--SharePoint 2010		
testportalapps.hud.gov		IOD	3: TEST	1: WEB	WebLogic 10.3.6		
tlannatv006	Windows 2008	SharePoint	3: TEST	2: APP	SharePoint 2010, Project Server 2010, UMT 360		unlimited
tlannatv007	Windows 2008	SharePoint	2: DEV	2: APP	SharePoint 2010, Project Server 2010, UMT 360		unlimited
tlannDTV003	Windows 2008	SharePoint	2: DEV	3: DB	MS SQL Server 2008		unlimited
tlannDTV004	Windows 2008	SharePoint	3: TEST	3: DB	MS SQL Server 2008		unlimited
tlannwTV003	Windows 2008	SharePoint	2: DEV	1: WEB	SharePoint 2010, Project Server 2010,		unlimited

Server Id	Server Platform	App. Short	Environment	Server Type	Layer Software	database\size	# of Users
					UMT 360		
tlannwtv004	Windows 2008	SharePoint	3: TEST	1: WEB	SharePoint 2010, Project Server 2010, UMT 360		unlimited
winhud-1	Windows 2008	LAP	1: PROD	1: WEB	Amazon EC2 m1.large, ASP.Net 4.0, .NET/.IIS 6		public
www5.hud.gov	Solaris	ECPCIS	1: PROD/DEV	1: WEB/APP	Java, Java scrip, SharePoint 2010		179
	Linux	TransAccess	1: PROD	3: DB	Oracle	(\5GB)	

Exhibit C End User Devices/GFE

This section specifies end user devices in HUD's current baseline.

C.1 IT Hardware in the Field

Region	City	Component	Make	Model	Serial Number
Region I	Providence	Camera	Kodak	DC210 Plus	EKK92500810
Region I	Hartford	Camera	Olympus	D395	40A254425
Region I	Providence	Camera	Kodak	EasyShare	KCGGV73025827
Region I	Providence	Camera	Olympus	FE-170	X45003232
Region I	Providence	Camera	Olympus	T-10	UDDA18076
Region I	Hartford	Camera	Olympus	FE-210	078700
Region I	Hartford	Camera	Olympus	FE-210	078698
Region I	Hartford	GPS	Garmin	Nuvi 200	14H637764
Region I	Providence	GPS	Garmin	Nuvi 200	14H657235
Region I	Hartford	GPS	Garmin	Nuvi 200	14H637762
Region I	Hartford	GPS	Garmin	Nuvi 200	14H637766
Region I	Providence	GPS	Garmin	Nuvi 200	14H657236
Region I	Providence	Projector	Infocus	NP40	8200031EM
Region I	Manchester	Projector	NEC	LT75Z	3400018ND
Region I	Providence	Projector	Infocus	LT75Z	3200061ND
Region I	Providence	Projector	Infocus	LitePro 730	2C825680
Region I	Boston	Projector	Casio	XJ-A245V	V043AAAF0A-015674
Region I	Boston	Projector	Casio	XJ-A245V	V043AAAF0A-015797
Region I	Providence	Remote	Keyspan	TSAM-001	613243
Region I	Providence	Remote	Keyspan	TSAM-001	534144
Region I	Boston	Portable	Canon	P-150	FEA62286
Region I	Boston	Projector	Casio	XJ-A245V	V043AAAF0A-013234
Region I	Boston	Mobile TV-PC	Haier	L42C1180a	TB300708900DG18D1372
Region I	Boston	Remote	Keyspan	TSAM-001	200577
Region I	Boston	Remote	Keyspan	TSAM-001	536348
Region I	Providence	Remote	Keyspan	Keyspan	616865
Region II	New York	Camera	Kodak	EasyShare	KCKGC61700462
Region II	New York	Camera	Kodak	EasyShare	KCTEJ60202122
Region II	New York	Card Reader	Sabrent	USB2	N09031008452
Region II	New York	Card Reader	Sabrent	USB2	N09031008433
Region II	Newark	Projector	NEC	LT75Z	3400065ND
Region II	New York	Projector	Casio	XJ-A245V	V043AAAF0A-016170
Region II	New York	Projector	Casio	XJ-A245V	V043AAAF0A-016732
Region II	New York	Projector	Epson	EMP-83	JXJF779229L
Region II	New York	Projector	NEC	LT757	3100171ND
Region II	New York	Remote	Universal	Universal	CT110302764
Region II	New York	Remote	Universal	Universal	CT110302763
Region II	New York	Remote	Universal	Universal	CT110302748

Region	City	Component	Make	Model	Serial Number
Region II	New York	Flashdrive	Kingston	16GB	HUD02-01
Region II	New York	Flashdrive	Kingston	16GB	HUD02-02
Region II	New York	Mobile TV-PC	Haier	L42C1180a	TB300708900DG1895
Region II	New York	Webcam	Logitech	C910 HD	960-000843
Region II	New York	Wireless	Microsoft	3000	0103601816511EC
Region II	New York	Wireless	Microsoft	3000	0103601816512EC
Region II	New York	Camera	Canon	PowerShot ELPH 300 HS	282032034421
Region II	New York	Card Reader	Sabrent	USB2	N09031008453
Region II	New York	Scanner	Canon	P-150	FEA62311
Region II	New York	Flashdrive	Kingston	16GB	HUD02-03
Region II	New York	Lapel	Rode Microphone	smartLav	0018865
Region II	New York	Studio	InterFit	EZ-Flo	HUD02-04
Region II	New York	Studio	InterFit	EZ-Flo	HUD02-05
Region II	New York	iPad Holder	InterFit	iPad Holder	HUD02-06
Region II	New York	CamCorder	Canon	Vixia HF R300	522504108030
Region III	Charleston	Camera	Kodak	EasyShare	KCKDT60607201
Region III	Charleston	Projector	Dell	3200MP	GYS2X21
Region III	Charleston	Camera	Kodak	EasyShare	KCKDT60607195
Region III	Charleston	Encryptable	Kanguru	KDF-16G	7-05110-10759-4
Region III	Charleston	Projector	Infocus	LitePro 730	2C8098093
Region III	Charleston	GPS	Garmin	Nuvi 255	1C5171588
Region III	Charleston	Projector	NEC	NP215	0500661EE
Region III	Philadelphia	Remote	Kensington	33374	A0714A1504
Region III	Philadelphia	Remote	Kensington	33374	B1034A9170
Region III	Philadelphia	Projector	NEC	NP215	0500707EE
Region III	Philadelphia	Remote	Kensington	33374	B1034A9041
Region III	Philadelphia	Projector	Casio	XJ-A245V	V043AAAF0A-016428
Region III	Philadelphia	Projector	Casio	XJ-A245V	V043AAAF0A-015876
Region III	Philadelphia	Projector	Epson	EMP-S5	JWUF742414L
Region III	Pittsburgh	Projector	NEC	NP215	0500699EE
Region III	Pittsburgh	GPS	Garmin	Nuvi 255	1C5171597
Region III	Pittsburgh	GPS	Garmin	Nuvi 255	1C5171598
Region III	Pittsburgh	Projector	NEC	LT265	5Z00069EM
Region III	Pittsburgh	SmartBoard	SmartBoard	660	SB660-R2-651060
Region III	Pittsburgh	Camera	Kodak	EasyShare	KCKEA54309908
Region III	Pittsburgh	Projector	Epson	EMP-S5	JWUF742410L
Region III	Pittsburgh	Projector	NEC	NP215	0500658EE
Region III	Charleston	Projector	Infocus	Insta-Theater	F-98
Region III	Richmond	Camera	HP	PhotoSmart	CN65SE105Z
Region III	Richmond	Camera	Olympus	Camedia	408254384
Region III	Richmond	GPS	Garmin	C330	10H980772
Region III	Richmond	GPS	Garmin	C330	10H936176
Region III	Richmond	GPS	Garmin	C330	10H980768

Region	City	Component	Make	Model	Serial Number
Region III	Richmond	GPS	Garmin	C330	10H936180
Region III	Richmond	GPS	Garmin	C330	10H936177
Region III	Baltimore	Projector	NEC	LT75Z	3400058ND
Region III	Baltimore	Projector	Epson	EMP-S5	JWUF74242DL
Region III	Richmond	Projector	NEC	NP215	01150526 0500705EE
Region III	Richmond	Projector	NEC	NP215	01150526 0500704EE
Region III	Richmond	Remote	Kensington	33374	A0714A1486
Region III	Richmond	Camera	Cannon	SX110	8626206304
Region III	Richmond	Camera	Cannon	SX120	8826015884
Region III	Richmond	Camera	Cannon	SX110	8726202480
Region III	Baltimore	Projector	Infocus	IN1100	AZVJ83400401
Region III	Charleston	Portable	Canon	P-150	FEA62291
Region III	Baltimore	Webcam	Logitech	C910 HD	N/A
Region III	Richmond	Projector	NEC	LT75Z	3200070ND
Region III	Richmond	Portable	Canon	P-150	FEA62274
Region III	Richmond	Webcam	Logitech	C910 HD	RIC01
Region III	Charleston	Webcam	Logitech	C910 HD	960-000843/
Region III	Philadelphia	Flashdrive	Kingston	DT102/16GB	740617164480
Region III	Philadelphia	Flashdrive	Kingston	DT102/16GB	740617164480
Region III	Philadelphia	Flashdrive	Kingston	DT102/16GB	740617164480
Region III	Philadelphia	Flashdrive	Kingston	DT102/16GB	00019574
Region III	Philadelphia	Flashdrive	Kingston	DT102/16GB	00019573
Region III	Philadelphia	Projector	NEC	LT265	5Z00057EM
Region IV	Atlanta	Camera	Sony	Cyber-shot	MKM3545288
Region IV	Columbia	Camera	Sony	Cyber-shot	6549909
Region IV	Atlanta	Camera	Sony	Cyber-shot	MKM3545282
Region IV	Memphis	CamCorder	Sony	DCR-DVD205	2012108
Region IV	Greensboro	Camera	Minolta	F300	32305078
Region IV	Birmingham	Camera	Sony	Mavica	398936
Region IV	Memphis	Camera	Sony	DSC-W70	6549829
Region IV	Birmingham	Projector	Infocus	LP730	2C8077839
Region IV	Birmingham	Projector	Infocus	LP730	2C8077558
Region IV	Birmingham	Projector	Infocus	LP730	2C8319321
Region IV	Nashville	Projector	Infocus	LP730	2C826076
Region IV	Birmingham	Projector	Infocus	LP735	2QW84400238
Region IV	Knoxville	Projector	NEC	LT20	69B1053ER
Region IV	Atlanta	Projector	NEC	LT265	5600113EJ
Region IV	Birmingham	Projector	Infocus	LT35	69B1038ER
Region IV	Greensboro	Projector	NEC	LT35	69B1043ER
Region IV	Memphis	Projector	NEC	LT35	69B1048ER
Region IV	Atlanta	Projector	NEC	LT35	69B0723ER
Region IV	Nashville	Projector	NEC	LT35	69B1041ER
Region IV	Atlanta	Projector	NEC	LT85	1400379PD

Region	City	Component	Make	Model	Serial Number
Region IV	Louisville	Projector	NEC	VT35	69B1037ER
Region IV	Birmingham	Projector	Infocus	VT560	3400348NEF
Region IV	Atlanta	Projector	NEC	VT560	3400219NE
Region IV	Atlanta	Projector	NEC	VT560	3400269NE
Region IV	Memphis	Projector	NEC	VT560	3500229NF
Region IV	Greensboro	Projector	NEC	VT91	8700524EH
Region IV	Memphis	Projector	Casio	XJ-A245V	B043CJAF08031772
Region IV	Atlanta	Projector	Casio	XJ-A245V	B043CJAF08-030399
Region IV	Atlanta	Projector	Casio	XJ-A245V	B043CJAF08-030490
Region IV	Atlanta	Projector	Casio	XJ-A245V	B043CJAF08-029612
Region IV	Atlanta	Projector	Casio	XJ-A245V	B043CJAF08-030670
Region IV	Atlanta	Projector	Casio	XJ-A245V	B043CJAF08-030962
Region IV	Atlanta	Projector	Casio	XJ-A245V	B043CJAF08-029915
Region IV	Greensboro	Projector	Casio	XJ-A245V	B043CJAF08-030355
Region IV	Memphis	Remote	R-Mouse	PS2400N	00YNYCA0178
Region IV	Atlanta	Remote	HP	Wireless Presenter	0506000641
Region IV	Atlanta	Scanner	Cannon	M111011	FEA65275
Region IV	Atlanta	Scanner	Cannon	M111011	FEA65262
Region IV	Atlanta	Scanner	Cannon	M111011	FEA65261
Region IV	Atlanta	Scanner	Cannon	M111011	FEA62026
Region IV	Atlanta	Scanner	Cannon	M111011	FEA65263
Region IV	Greensboro	Scanner	Canon	P-150	DDF3979845
Region IV	Jacksonville	Portable	Canon	P-150	FEA65268
Region IV	Jacksonville	Projector	NEC	LT35	69B1052ER
Region IX	Santa Ana	Camera	Canon	A59015	8122416826
Region IX	Los Angeles	Projector	Canon	LV-X6	U400152A
Region IX	Los Angeles	Disaster	HP	Deskjet 460	MY75S5Z123
Region IX	Los Angeles	Disaster	HP	Deskjet 460	MY75T5Z02H
Region IX	Los Angeles	Disaster	HP	Deskjet 460	MY77G5Z1JD
Region IX	Los Angeles	Card Reader	IOGEAR	GFR280	OU53USD2B03036
Region IX	San Francisco	Projector	NEC	LT75Z	2700233NC
Region IX	San Francisco	Projector	NEC	LT75Z	2700246NC
Region IX	Los Angeles	Projector	NEC	LT75Z	2700266NC
Region IX	San Francisco	Projector	NEC	LT75Z	2700272NC
Region IX	Santa Ana	Projector	NEC	LT75Z	3100087ND
Region IX	Los Angeles	Projector	NEC	NP50	7700212EH
Region IX	Santa Ana	Camera	Nikon	L10	32158592
Region IX	Santa Ana	Camera	Nikon	L10	32158610
Region IX	Los Angeles	Encrypted	Stealth	MXP 2GB	0EF407D0E00800DF
Region IX	Los Angeles	Encrypted	Stealth	MXP 2GB	0EF407D0E00B00B3
Region IX	Los Angeles	Encrypted	Stealth	MXP 2GB	0EF407D0E00C00E5
Region IX	Los Angeles	Encrypted	Stealth	MXP 2GB	0EF407D0E00D0088
Region IX	Los Angeles	Encrypted	Stealth	MXP 2GB	0EF407D0E00E009F

Region	City	Component	Make	Model	Serial Number
Region IX	Las Vegas	Projector	NEC	NP60	Projector999
Region IX	Santa Ana	Webcam	Logitech	C910 HD	0 97855 079206 3
Region IX	San Francisco	Webcam	Logitech	C910 HD	0 97855 079206 4
Region IX	Los Angeles	Webcam	Logitech	C910 HD	0 97855 079206 1
Region IX	Los Angeles	Webcam	Logitech	C910 HD	0 97855 079206 2
Region IX	San Francisco	Webcam	Logitech	C910 HD	0 97855 079206 5
Region IX	San Francisco	Webcam	Logitech	C910 HD	097855 079206 6
Region IX	Los Angeles	Projector	Canon	LV-X6	U400359A
Region IX	Los Angeles	Projector	Canon	LV-X6	U400149A
Region IX	Las Vegas	Webcam	Logitech	C910 HD	097855 079206 7
Region IX	Reno	Webcam	Logitech	C910 HD	097855 079206 8
Region IX	Los Angeles	Flashdrive	Kingston	DT102/16GB	CC16448-00018916
Region IX	Los Angeles	Flashdrive	Kingston	DT102/16GB	CC16448-00019406
Region IX	Los Angeles	Mobile TV-PC	Haier	L42C1180a	TB300708900DG18D2146
Region IX	Los Angeles	Flashdrive	Kingston	DT102/16GB	CC16448-00019036
Region IX	Los Angeles	Projector	Casio	XJ-A141	L032BBAF27-137511
Region V	Chicago	Projector	Dell	3200MP	D9R2X21
Region V	Chicago	Projector	Infocus	1510X	C3L7LJ1
Region V	Chicago	Projector	Dell	S300w	1976LJ1
Region V	Chicago	Projector	Casio	XJ-A245V	V043ABAF0A-019668
Region V	Chicago	Wireless	Targus	PAUM30	0701008455
Region V	Chicago	Wireless	Kensington	33374	E1128A0373
Region V	Indianapolis	Portable	Canon	P-150	FEA64937
Region V	Indianapolis	Portable	Canon	P-150	FEA64922
Region V	Chicago	Portable	Canon	P-150	FEA64952
Region V	Chicago	Projector	Casio	XJ-A245V	V043CBAF11
Region V	Chicago	Flashdrive	SanDisk	Cruzer	SDCZ36-008G
Region V	Chicago	Scanner	Canon	P-150	FEA64944
Region V	Chicago	Portable	Haier	L42C1180a	TB300708900DG18D1051
Region V	Chicago	Portable	Haier	L42C1180a	TB3007089DG18D2150
Region VI	Fort Worth	Projector	Epson	PowerLite 77c	JX8F791208L
Region VI	Fort Worth	Projector	Epson	PowerLite 77c	JX8F784675L
Region VI	Fort Worth	Projector	NEC	LT35	62B0427EE
Region VI	Fort Worth	Projector	NEC	LT35	62B0179EE
Region VI	Fort Worth	Projector	NEC	LT35	62B0058EE
Region VI	Oklahoma City	Projector	NEC	LT35	69b0144et
Region VI	Houston	Projector	NEC	LT35	69B0143ER
Region VI	Oklahoma City	Projector	NEC	LT75Z	2800137nc
Region VI	Little Rock	Projector	NEC	LT75Z	2900196NC
Region VI	Little Rock	Projector	NEC	LT75Z	2900036NC
Region VI	Little Rock	Projector	NEC	LT75Z	3700036ND
Region VI	Oklahoma City	Projector	Epson	PowerLite 77c	jx8f784554l
Region VI	Oklahoma City	Projector	Epson	PowerLite 77c	jx8f784688l

Region	City	Component	Make	Model	Serial Number
Region VI	Houston	Projector	Infocus	LP280	AAAN209011
Region VI	Houston	Remote	Kingston	33373	A0729A0860
Region VI	Houston	Remote	Kingston	33374	E1123A2460
Region VI	Houston	Remote	Kingston	33374	E1033A2170
Region VI	Houston	Remote	Kingston	33374	E1123A2467
Region VI	Houston	Remote	Kingston	33374	E1125A0354
Region VI	Houston	Remote	Keyspan	TSAM-001	513765
Region VI	Little Rock	Remote	Kingston	Universal	LRK02
Region VI	Little Rock	Remote	Kingston	Universal	LRK01
Region VI	Oklahoma City	Remote	Kingston	Universal	b1125a0349
Region VI	Oklahoma City	Remote	Universal	Universal	okc-04
Region VI	Oklahoma City	Remote	Kingston	Universal	b1033a2077
Region VI	Houston	Remote	Logitech	R800	WD014XM
Region VI	Fort Worth	Webcam	Logitech	C910 HD	06FTW-C910-01
Region VI	Houston	Webcam	Logitech	C910 HD	06HOU-C910-01
Region VI	San Antonio	Webcam	Logitech	C910 HD	06SAN-C910-01
Region VI	Oklahoma City	Webcam	Logitech	C910 HD	06OKL-C910-01
Region VI	Fort Worth	Projector	Casio	XJ-A245V	V043CBAF12-062469
Region VI	Fort Worth	Projector	Casio	XJ-A245V	V043CBAF12-021102
Region VI	Oklahoma City	Projector	Casio	XJ-A245V	V043CBAF12-062526
Region VI	San Antonio	Projector	Casio	XJ-A245V	V043CBAF12-060243
Region VI	Houston	Projector	Casio	XJ-A245V	V043CBAF12-061604
Region VI	New Orleans	Projector	Casio	XJ-A245V	V043CBAF12-060513
Region VI	Tulsa	Projector	Epson	PowerLite 77c	JX8F784689L
Region VI	Albuquerque	Projector	Epson	PowerLite 77c	JX8F784682L
Region VI	New Orleans	Wireless	Kensington	33373	A0729A0872
Region VI	New Orleans	Wireless	Kensington	33374	B1033A2172
Region VI	New Orleans	Wireless	Logitech	R800	WD014XM
Region VI	New Orleans	Projector	Epson	EMP-S5	JX8F754238L
Region VI	New Orleans	Projector	Epson	EMP-S5	JX8F784673L
Region VI	San Antonio	Webcam	Logitech	C920 HD	06SAN-C920-01
Region VI	Fort Worth	Projector	NEC	LT75Z	3400088ND
Region VI	Fort Worth	Camera	Olympus	VR-340	URR014475
Region VI	Fort Worth	Camera	Olympus	VR-340	URR012367
Region VI	Fort Worth	Camera	Olympus	VR-340	URR014474
Region VI	Fort Worth	Camera	Olympus	VR-340	URR012130
Region VI	Fort Worth	Camera	Olympus	VR-340	URR012361
Region VI	Fort Worth	Camera	Olympus	VR-340	URR014471
Region VI	Fort Worth	Camera	Olympus	VR-340	URR014476
Region VI	Fort Worth	Camera	Olympus	VR-340	URR014501
Region VI	Fort Worth	Camera	Olympus	VR-340	URR012171
Region VI	Fort Worth	Camera	Olympus	VR-340	URR012177
Region VI	Tulsa	Camera	Olympus	VR-340	URR012180

Region	City	Component	Make	Model	Serial Number
Region VI	San Antonio	Camera	Olympus	VR-340	URR011821
Region VI	San Antonio	Camera	Olympus	VR-340	URR012129
Region VI	Oklahoma City	Camera	Olympus	VR-340	URR012365
Region VI	Oklahoma City	Camera	Olympus	VR-340	URR012172
Region VI	New Orleans	Camera	Olympus	VR-340	URR012179
Region VI	New Orleans	Camera	Olympus	VR-340	URR012126
Region VI	Little Rock	Camera	Olympus	VR-340	URR012366
Region VI	Little Rock	Camera	Olympus	VR-340	URR011822
Region VI	Houston	Camera	Olympus	VR-340	URR012063
Region VI	Houston	Camera	Olympus	VR-340	URR012069
Region VI	Albuquerque	Camera	Olympus	VR-340	URR012175
Region VI	Albuquerque	Camera	Olympus	VR-340	URR012174
Region VI	Fort Worth	Camera	Olympus	VR-340	URR012363
Region VI	Fort Worth	Projector	NEC	LT75Z	3400080ND
Region VI	Little Rock	Projector	Casio	XJ-A141	L032BBAF27-135553
Region VI	Houston	Projector	Casio	XJ-A141	L032BBAF27-135351
Region VI	Little Rock	Projector	Casio	XJ-A141	L032BBAF27-137319
Region VI	Fort Worth	Projector	Casio	XJ-A141	L032BBAF27-135306
Region VI	Fort Worth	Projector	Casio	XJ-A141	L032BBAF27-135520
Region VI	Fort Worth	Portable	Canon	P-150	FUA89904
Region VI	Fort Worth	Portable	Canon	P-150	FUA98500
Region VII	St. Louis	Camera	Olympus	FE-340	M89K77097
Region VII	Kansas City,	Projector	Casio	XJ-A245V	V043CAF12-059847
Region VII	Kansas City,	Projector	Casio	XJ-A245V	V043AAAF0A-016642
Region VII	Kansas City,	Projector	Epson	PowerLite 77c	JX8F784685L
Region VII	Kansas City,	Projector	Epson	PowerLite 77c	JX8F784831L
Region VII	Kansas City,	Projector	Epson	PowerLite 77c	JX8F784836L
Region VII	Kansas City,	Projector	NEC	NP60	7700476WH
Region VII	St. Louis	Projector	NEC	NP60	8400936WN
Region VII	St. Louis	Projector	NEC	NP60	8400917WN
Region VII	St. Louis	Projector	NEC	NP64	0300500WA
Region VII	Kansas City,	Remote	Kensington	33373	D1117A0408
Region VII	St. Louis	Remote	Kensington	33373	D1117A0018
Region VII	St. Louis	Remote	Kensington	33373	D1117A0052
Region VII	St. Louis	Remote	Universal	Wireless Presenter	STL02
Region VII	St. Louis	Remote	Universal	Wireless Presenter	STL03
Region VII	St. Louis	Remote	HP	Targus PF726A	STL01
Region VII	Omaha	Remote	HP	Targus AMP02US	0909033050
Region VII	Kansas City,	Camera	Olympus	FE-340	M89K77096
Region VII	Kansas City,	CamCorder	Sony	DCR-DVD650 CamCorder	1468545
Region VII	Omaha	Projector	NEC	NP64	0300499WA
Region VII	Omaha	Projector	Casio	XJ-A245V	V043CBAF15-065331
Region VII	Omaha	Encryptable	Stealth	MXP 2GB	0EF40740E00B00AF

Region	City	Component	Make	Model	Serial Number
Region VII	Kansas City,	Webcam	Logitech	Carl Zeiss Tessar HD 1080p	KCK-01
Region VII	Kansas City,	Webcam	Logitech	Carl Zeiss Tessar HD 1080p	KCK-02
Region VII	Omaha	Webcam	Logitech	Carl Zeiss Tessar HD 1080p	WC-OMA-01
Region VII	Des Moines	Projector	NEC	NP64	0300483WA
Region VII	Des Moines	Projector	NEC	NP60	7700480WH
Region VII	Des Moines	Projector	NEC	NP215	0100135EC
Region VII	Des Moines	Camera	Olympus	FE-340	M89K77095
Region VII	St. Louis	Camera	Olympus	FE-4020	U7HA12538
Region VII	Omaha	Portable	Canon	M111011	FEA62287
Region VII	St. Louis	Loudspeaker	Altec Lansing	Octane 7	01931 FDAM0024420
Region VII	St. Louis	Camera	Olympus	FE-340	M89K86337
Region VII	Kansas City,	Projector	Casio	XJ-A245V	V043AAAF0A-016608
Region VII	Des Moines	Camera	Olympus	VR-340	URR011760
Region VII	St. Louis	Remote	Kensington	33374	B1220A4429
Region VII	St. Louis	Camera	Nikon	D1500	3740959
Region VII	Omaha	Camera	Olympus	FE-4020	U7HA09798
Region VII	Kansas City,	Projector	Epson	PowerLite 77c	M99FGY1517L
Region VII	Kansas City,	Projector	Casio	XJ-A245V	V043CBAF12-062111
Region VII	Omaha	Camera	Olympus	SZ16	JMU213526
Region VII	Omaha	Camera	Olympus	SZ16	JMU210122
Region VII	St. Louis	Camera	Olympus	SZ16	JMU213652
Region VIII	Denver	Camera	Sony	Cyber-shot	0379543
Region VIII	Denver	Camera	Sony	Cyber-shot	0379541
Region VIII	Denver	Camera	Sony	Cyber-shot	7237535
Region VIII	Denver	Camera	Sony	Cyber-shot	7237538
Region VIII	Denver	Camera	Sony	Cyber-shot	7237541
Region VIII	Denver	Camera	Sony	Cyber-shot	7237542
Region VIII	Denver	Projector	NEC	NP60	7700118EH
Region VIII	Denver	Projector	NEC	NP60	7700071EH
Region VIII	Denver	Projector	NEC	NP60	7700082EH
Region VIII	Denver	Projector	NEC	NP60	7700106EH
Region VIII	Denver	Projector	Casio	XJ-A245V	V043AAAF0A-015832
Region VIII	Denver	Projector	Casio	XJ-A245V	V043AAAF0A-015731
Region VIII	Denver	Camera	Olympus	FE-140	J69224040
Region VIII	Denver	Camera	Olympus	FE-140	J69224024
Region VIII	Denver	Camera	Olympus	FE-140	J69224021
Region VIII	Casper	Projector	NEC	LT20	5Z00018CMD
Region VIII	Denver	Projector	NEC	LT20	5Y00405CMD
Region VIII	Denver	Camera	Sony	Cyber-shot	0379543
Region VIII	Denver	Projector	NEC	NP64	0400188WA
Region VIII	Denver	Webcam	Logitech	C910 HD	860-000319-DEN
Region VIII	Denver	Remote	NEC	NP60	DEN-P01
Region VIII	Salt Lake	Camera	Olympus	VR-340	URR012368

Region	City	Component	Make	Model	Serial Number
Region VIII	Sioux Falls	Camera	Olympus	VR-340	URR012127
Region VIII	Fargo	Camera	Olympus	VR-340	URR012064
Region VIII	Helena	Camera	Olympus	VR-340	URR011826
Region VIII	Denver	Camera	Olympus	VR-340	URR012062
Region VIII	Denver	Camera	Olympus	VR-340	URR012369
Region VIII	Denver	Projector	NEC	LT75Z	2700259NC
Region VIII	Denver	Projector	NEC	LT75Z	2700263NC
Region VIII	Denver	Webcam	Logitech	C910 HD	860-000320-DEN
Region X	Spokane	Projector	NEC	LT757	2700270NC
Region X	Anchorage	Projector	NEC	LT757	017011
Region X	Seattle	Projector	NEC	LT75Z	24L46631
Region X	Seattle	Projector	NEC	NP40	7700294EH
Region X	Seattle	Projector	NEC	NP40	7700343EH
Region X	Boise	Projector	Infocus	LP730	2C8077517
Region X	Anchorage	Projector	Casio	XJ-A245V	V043BBAFOC-044399
Region X	Portland	Projector	Casio	XJ-A245V	V043BBAFOC-044524
Region X	Seattle	Projector	Casio	XJ-A245V	V043CBAF12-060423
Region X	Seattle	Scanner	Canon	P-150	FEA65048
Region X	Portland	Scanner	Canon	P-150	FEA65039
Region X	Seattle	Webcam	Logitech	C910 HD	WC-1
Region X	Seattle	Webcam	Logitech	C910 HD	WC-2
Region X	Portland	Projector	NEC	LT75Z	3100082ND
Region X	Portland	Projector	NEC	LT75Z	3200030ND
Region X	Seattle	CamCorder	Canon	Vixia HF R300	522484100677

Additional Items:

- Xerox Documate 510 Scanner
- Fujitsu Scan Snap S1300 scanners
- Fujitsu Scan Snap S1500 scanners
- Kodak i30 Scanners
- Kodak i40 Scanners
- HP Designjet 510 42I Plotter
- Xerox 6100 Color Printer
- Primera BravoProXi2 Disc Publisher
- Epson Stylus C88+ Color Inkjet Printer

C.2 Current PC Requirements

Optiplex 9010 Desktop Configuration	
Dell Optiplex 9010 - Small Form Factor (SFF):	
	Intel Core i5-3550, 3.3GHz, 3MB w/HD2500 Graphics
	4GB, NON-ECC, 1600MHZ DDR3,2DIMM
	Intel Integrated Graphics
	250GB 3.5 6.0Gb/s SATA with 8MB DataBurst Cache
	8X DVD+/-RW
	DisplayPort to DVI (Dual Link) Adapter
USB Keyboard w/ Smart Card Reader	
Optical Wired Mouse	
Dell 22 Inch P2213 Monitor	
Dell Latitude E6430 Laptop Configuration	
Dell Latitude E6430:	
	Intel Core i5-3320M Processor (2.6GHz, 3M cache)
	4.0GB, DDR3-1600MHz SDRAM, 1DIMM
	Intel HD Graphics
	320GB 7200rpm Hard Drive
	8X DVD+/-RW
E/Port Plus, Advanced Port Replicator	
USB Keyboard w/ Smart Card Reader	
Optical Wired Mouse	
Dell 22 Inch P2213 Monitor	
Panasonic Toughbook/Pads	
Dell Latitude E7440 Laptop Configuration	
Latitude E7440 (210-AAWL):	
	8GB (1x8GB) 1600MHz DDR3L Memory (370-AAER)
	Internal English Backlit Dual Pointing Keyboard (580-AAZX)
	No External Monitor (480-ABST)
	Intel Integrated HD 4400 Graphics (490-BBJL)
	Intel Wireless 7260 Driver (555-BBHK)

256GB Full Mini-Card Mobility Solid State Drive (400-AAVL)
Primary 4-cell 47W/HR Battery (451-BBCT)
E7440 mSATA Interposer (400-ABJC)
No Modem (530-BBBD)
4th Gen Intel(R) Core(TM) i7-4600U Processor (2.1 GHz, 4M Cache) (338-BCKK)
4th Gen Intel Core i7-4600U Processor (2.1GHz, 4M cache), non-touch (329-BBZJ)
Intel Dual Band Wireless-AC 7260 802.11ac/a/b/g/n 2x2 + Bluetooth 4.0 LE Half Mini Card (555-BBHI)
E5 Power Cord (US) (537-BBBD)
Fingerprint Reader and Smart Card Reader (Contact and Contactless) Palmrest (346-BBDO)
E-Port Plus, dock adds dual digital display and legacy port support, USB 3.0 (452-BBBH)
Light Sensitive Webcam and Noise Cancelling Digital Array Mic (325-BBCL)
Dell Docking Spacer for Latitude 7000 Series (452-BBDB)
Dell Adapter - Mini DisplayPort to VGA (492-BBFM)
14.0 FHD (1920x1080) Wide View Anti-Glare WLED-backlit, WiGig/WWAN capable (391-BBFC)
System Driver, Latitude E7440 (551-BBBM)
65W AC Adapter, 3-pin (492-BBEM)

C.3 Training Rooms and Workstation Requirements

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
Albany	Region II - New York	52 Corporate Circle, Albany, NY 12203	Private	Training	ITD Computer Training Room	Mounted Projector	8	TRUE
Albuquerque	Region VI - Ft. Worth	500 Gold Avenue SW, 7th Floor, Suite 7301, P.O. Box 906, Albuquerque, NM 87103-0906	GSA	Training	Computer Training Room	Portable Projector	4	FALSE
Anchorage	Region X - Seattle	3000 C. Street, Suite 401, Anchorage, AK 99503	Private	Training	Ellutna Training Room	Portable Projector	12	TRUE
Atlanta	Region IV - Atlanta	40 Marietta St. NW, Atlanta, GA 30303	Private	Training	IT Computer Training Room	Mounted Projector	33	TRUE
Baltimore	Region III - Philadelphia	City Crescent Building, 10 South Howard St. 5th floor, Baltimore, MD 21201-2505	Private	Training	PC Training Room	Mounted Projector	13	TRUE
Bangor	Region I - Boston	202 Harlow Street, Suite D2000, Bangor, ME 04401-4901	GSA	Conference	Conference Room	Mobile Flat Panel TV	0	FALSE
Birmingham	Region IV - Atlanta	950 22nd Street North, Suite 900, Birmingham, AL 35203-5301	Private	Training	IT Computer Training Room	Portable Projector	12	TRUE
Boston	Region I - Boston	10 Causeway Street, Third Floor, Boston, MA 02222-1092	GSA	Training	Computer Training Classroom	Portable Projector	13	TRUE
Boston	Region I - Boston	10 Causeway Street, Third Floor, Boston, MA 02222-1092	GSA	Conference	VTC Conference Room	Mobile Flat Panel TV	1	FALSE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
Boston	Region I - Boston	10 Causeway Street, Third Floor, Boston, MA 02222-1092	GSA	Conference	Large Conference Room	Mounted Projector	0	FALSE
Buffalo	Region II - New York	465 Main Street, 2nd Floor, Buffalo, NY 14203	Private	Training	ITD Computer Training Room	Mounted Projector	13	TRUE
Burlington	Region I - Boston	95 Saint Paul Street, Suite 440, Burlington, VT 05401-4486	Private	Conference	Conference Room	Mobile Flat Panel TV	0	FALSE
Charleston	Region III - Philadelphia	405 Capitol Street, Suite 708, Charleston, WV 25301-1795	Private	Training	Computer Training Room	Portable Projector	5	FALSE
Chicago	Region V - Chicago	77 W. Jackson Blvd., Chicago, IL 60604	GSA	Training	Training Room	Mounted Projector	23	TRUE
Cleveland	Region V - Chicago	US Bank Centre, 1350 Euclid Ave. 5th Fl., Cleveland, OH 44115	Private	Training	Training	Portable Projector	11	TRUE
Columbia	Region IV - Atlanta	Strom Thurmond Federal Building, 1835 Assembly Street, 13th Floor, Columbia, SC 29201	GSA	Conference	Large Conference Room		6	FALSE
Columbus	Region V - Chicago	200 N. High St., 7th Floor, Columbus, OH, 43215-2499	GSA	Training	Training	Portable Projector	13	TRUE
Denver	Region VIII Denver	1670 Broadway Street, Denver, CO 80202	Private	Training	Training Room	Mounted Projector	16	TRUE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
Des Moines	Region VII - Kansas City	Neil Smith Federal Building - 210 Walnut St., Rm. 239 - Des Moines, IA 50309-2155	GSA	Training	Training Room	Portable Projector	6	FALSE
Detroit	Region V - Chicago	477 Michigan Avenue, Suite 1710; Detroit, MI 48226-2592	GSA	Training	Training	Mounted Projector	16	TRUE
Ft. Worth	Region VI - Ft. Worth	801 Cherry Street, Unit #45, Suite 2500, Ft. Worth, TX 76102	Private	Training	Computer Training Room	Mounted Projector	25	TRUE
Greensboro	Region IV - Atlanta	1500 Pinecroft Road, Suite 401, Greensboro, North Carolina 27401	Private	Conference	Large Conference Room	Mounted Projector	0	FALSE
Greensboro	Region IV - Atlanta	US Dept. HUD, 1500 Pinecroft Road, Suite 401, Greensboro, North Carolina 27401	Private	Training	ADP Training Room	Mounted Projector	11	FALSE
Hartford	Region I - Boston	20 Church Street, 10th Floor, Hartford, CT 06103-3220	Private	Training	Computer Classroom	Mounted Projector	10	TRUE
Hartford	Region I - Boston	20 Church Street, 10th Floor, Hartford, CT 06103-3220	Private	Conference	Conference Room	Mobile Flat Panel TV	1	FALSE
Honolulu	Region IX - San Francisco	1132 Bishop Street, Suite 1400, Honolulu, HI 96813	Private	Training	Computer Training Room	Mounted Flat Panel TV	6	FALSE
Houston	Region VI - Ft. Worth	1301 Fannin, Suite 2200, Houston, TX 77002	Private	Training	computer training room	Mounted Projector	13	TRUE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
Indianapolis	Region V - Chicago	575 N. Pennsylvania Street, Room 655, Indianapolis, IN 46204-1555	GSA	Training	Training	Mounted Projector	13	TRUE
Jackson	Region IV - Atlanta	100 West Capitol St., RM 910, Jackson, MS 39269	GSA	Training	IT Computer Training Room	Mounted Projector	7	TRUE
Jacksonville	Region IV - Atlanta	400 West Bay Street, Suite 1015, Jacksonville, FL 32202-4410	GSA	Training	IT Computer Training Room	Mounted Projector	16	FALSE
Kansas City, MO	Region VII - Kansas City	HUD (FMC Office) – Financial Management Center - 2380 McGee, 4th Floor, Kansas City, MO 64108	Private	Training	Large Room	Mounted Projector	0	FALSE
Kansas City	Region VII - Kansas City	400 State Ave. Kansas City, KS 66101	Private	Training	Training Room.	Mounted Projector	17	TRUE
Knoxville	Region IV - Atlanta	John J. Duncan Federal Building, 710 Locust Street, Third Floor, Knoxville, TN 37902-2526	GSA	Training	IT Computer Training Room	Portable Projector	6	FALSE
Little Rock	Region VI - Ft. Worth	425 West Capitol Avenue, Suite 1000, Little Rock, AR 72201-3488	Private	Training	computer training room	Portable Projector	12	FALSE
Los Angeles	Region IX - San Francisco	611 W. 6th St., Ste 801, Los Angeles, CA 90017	Private	Training	Room 1030 - Computer Training Room	Mounted Projector	23	TRUE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
Louisville	Region IV - Atlanta	Gene Snyder Courthouse, 601 W. Broadway, Room 110, Louisville, KY 40202	GSA	Training	IT Computer Training Room	Mounted Projector	8	TRUE
Manchester	Region I - Boston	275 Chestnut Street, 4th Floor, Manchester, NH 03103-1730	GSA	Training	Computer Training Classroom	Mounted Projector	11	TRUE
Memphis	Region IV - Atlanta	200 Jefferson Suite 300, Memphis, TN 38103	Private	Training	IT Computer Training Room	Portable Projector	8	TRUE
Miami	Region IV - Atlanta	909 S.E. 1st Ave. Suite 500, Miami, FL 33131	GSA	Training	IT Computer Training Room	Mounted Projector	12	FALSE
Milwaukee	Region V - Chicago	310 W. Wisconsin Avenue, Suite 950; Milwaukee, WI 53203-2289	Private	Training	Training	Mounted Projector	12	TRUE
Minneapolis	Region V - Chicago	920 2nd Ave. South, Suite 1300. Minneapolis, MN 55402	Private	Training	Training	Mounted Projector	7	TRUE
Nashville	Region IV - Atlanta	US Dept. HUD, 235 Cumberland Bend Suite 200, Nashville, TN 37228-1803	Private	Training	IT Computer Training Room	Mounted Projector	9	TRUE
New York	Region II - New York	26 Federal Plaza Room 35-118 New York, NY 10278	GSA	Conference	FPM Conference Room 3534A	Mounted Flat Panel TV		FALSE
New York	Region II - New York	26 Federal Plaza Room 35-118 New York, NY 10278	GSA	Conference	FHEO Conference Room 3523	None		FALSE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
New York	Region II - New York	26 Federal Plaza Room 35-118 New York, NY 10278	GSA	Conference	PIH Conference Room 32-115	Mounted Projector		FALSE
New York	Region II - New York	26 Federal Plaza Room 35-118 New York, NY 10278	GSA	Conference	OAHP Conference Room 32-108	None		FALSE
New York	Region II - New York	26 Federal Plaza Room 35-118 New York, NY 10278	GSA	Training	ITD Computer Training Room	Portable Projector	17	TRUE
New York	Region II - New York	26 Federal Plaza Room 35-118 New York, NY 10278	GSA	Conference	36th Floor Conference Room	Mounted Projector		FALSE
Newark	Region II - New York	One Newark Center, Newark, NJ 07102	Private	Training	ITD Computer Training Room	Portable Projector	8	TRUE
New Orleans	Region VI – Ft. Worth	Hale Boggs Federal Building, 500 Poydras Street, 9th Floor, New Orleans, LA 70130	GSA	Training	Business Center	Portable Projector	6	TRUE
Oklahoma	Region VI - Ft. Worth	301 NW 6th Street, Suite 200, Oklahoma City, OK 73102	GSA	Training	Computer Training Room	Mounted Projector	13	TRUE
Omaha	Region VII - Kansas City	Edward Zorinsky Federal Building - 1616 Capitol Ave., Suite 329 - Omaha, Nebraska 68102-4908	GSA	Training	Training Room.	Mounted Projector	6	FALSE
Philadelphia	Region III - Philadelphia	HUD, 100 Penn Square East, Philadelphia, PA 19107	Private	Training	IT Computer Lab	Mounted Projector	16	TRUE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
Phoenix	Region IX - San Francisco	One North Central Avenue, Suite 600, Phoenix, AZ 85004	Private	Training	Computer Training Room	Mounted Projector	13	TRUE
Pittsburgh	Region III - Philadelphia	William Moorhead Federal Building, 1000 Liberty Ave, Suite 1000, Pittsburgh, PA 15222-4004	GSA	Training	Computer Learning Lab	Portable Projector	11	TRUE
Portland	Region X - Seattle	Edith Green-Wendell Wyatt Federal Building, 1220 SW 3rd Avenue, Suite 400, Portland, OR 97204-2825	GSA	Training	Clackamas Training Room	Mobile Flat Panel TV	9	TRUE
Providence	Region I - Boston	121 South Main Street, Suite 300, Providence, RI 02903-7104	Private	Training	Computer Classroom	Mounted Projector	10	TRUE
Richmond	Region III - Philadelphia	600 East Broad Street, 3rd floor, Richmond, VA 23219-4920	Private	Training	Computer Training Lab	Mounted Projector	13	TRUE
San Antonio	Region VI - Ft. Worth	Hipolito Garcia Federal Building, 615 E. Houston Street, Suite 347, San Antonio, Texas 78205	GSA	Training	Computer training room	Mounted Projector	13	TRUE
San Francisco	Region IX - San Francisco	One Sansome Street, Suite 1200, San Francisco, CA 94104-4430	Private	Training	Computer Training Room	Mounted Projector	21	TRUE
San Juan	Region IV - Atlanta	Parque Las Americas 1 Building, #235 Federico Costa St., Suite 200, San Juan, PR 00918	Private	Training	IT Computer Training Room	Mounted Projector	12	FALSE

Office Name	Region	Office Mailing Address	Building Type	Room Type	Description	AV Equipment	Number Of PCs	Instruction PC
San Juan	Region IV - Atlanta	Parque Las Americas 1 Building, #235 Federico Costa St., Suite 200, San Juan, PR 00918	Private	Training	IT Computer Training Room	Portable Projector	12	FALSE
Santa Ana	Region IX - San Francisco	Santa Ana Federal Building, 34 Civic Center Plaza, Room 7015, Santa Ana, CA 92701-4003	GSA	Training	Room 8019, Computer Training Room	Mounted Projector	18	TRUE
Seattle	Region X - Seattle	909 First Avenue, Suite 200, Seattle, WA 98104	GSA	Training	Room 135B	Mounted Projector	20	FALSE
St. Louis	Region VII - Kansas City	1222 Spruce Street - Robert A. Young Federal Bldg., Room 3.203 - St. Louis, MO 63103	GSA	Training	Computer Training Room	Portable Projector	5	TRUE
Tulsa	Region VI - Ft. Worth	Williams Center Tower II, 2 West Second Street, Suite 400, Tulsa, OK 74103	Private	Training	Computer Training Room	Portable Projector	6	TRUE
Washington, DC	Region III - Philadelphia	820 First Street NE, Suite 300, Washington, DC 20002-4205	Private	Training	Training Room	Portable Projector	13	TRUE
Washington, DC	HeadQuarters	451 7th Street SW , Washington , DC B-174, B-172 ,B-182-B-176	HQ	Training	Training Room	Portable Projector	40	TRUE

Exhibit D References

Unless otherwise specified, compliance will be to the latest revision of the documents that are listed in this section.

D.1 Federal/Agency-wide Policies, Standards, Procedures and Guidelines

Legislation

Document	Location
Executive Order 13576, Delivering an Efficient, Effective, and Accountable Government	http://www.whitehouse.gov/the-press-office/2011/06/13/executive-order-delivering-efficient-effective-and-accountable-government
FAR Clauses Applicable to Electronics Stewardship	http://www2.epa.gov/fec/far-clauses-applicable-electronics-stewardship-6142012
Federal Information Security Management Act (FISMA) of 2002	http://csrc.nist.gov/drivers/documents/FISMA-final.pdf
Federal Legislation and Executive Orders Relevant to the FEC	http://www2.epa.gov/fec/federal-legislation-regulation-and-executive-orders-relevant-federal-electronics-stewardship
Privacy Act of 1974, 5 U.S.C. (U.S. Code), Section 552a	http://www.dod.mil/pubs/foi/privacy/docs/PrivacyAct1974_Am0702.pdf
NARA Regulations at 36 CFR Chapter XII, Subchapter B, Records Management	http://www.archives.gov/about/regulations/regulations.html
Section 504 of the Rehabilitation Act, Pub. L. 105-220, Title IV, 408(b)	http://www.section508.gov/section-504-rehabilitation-act
Section 508 of the Rehabilitation Act, Pub. L. 105-220, Title IV, 408(b)	http://www.section508.gov/Section-508-Of-The-Rehabilitation-Act
The Workforce Investment Act of 1998	http://www.doleta.gov/usworkforce/wia/act.cfm

Directives and Policies

Document	Location
HSPD-12, Homeland Security Presidential Directive 12: Policy for a Common Identification Standard for Federal Employees and Contractors	http://www.dhs.gov/homeland-security-presidential-directive-12
DHS Cybersecurity Directives	https://www.dhs.gov/topic/cybersecurity
OMB Circular No. A-130 revised: Management of Federal Information Resources	http://www.whitehouse.gov/omb/circulars_a130_a130trans4/
United States Government Configuration Baseline (USGCB): OMB M-07-11 <i>Implementation of Commonly Accepted Security Configurations for Windows Operating Systems</i>	http://www.whitehouse.gov/sites/default/files/omb/assets/omb/memoranda/fy2007/m07-11.pdf

Document	Location
United States Government Configuration Baseline (USGCB): OMB M-07-18 <i>Ensuring New Acquisitions Include Common Security Configurations</i>	http://www.whitehouse.gov/sites/default/files/omb/assets/omb/memoranda/fy2007/m07-18.pdf
OMB Memorandum for Continued Implementation of Homeland Security Presidential Directive (HSPD) 12 - Policy for a Common Identification Standard for Federal Employees and Contractors (M-11-11)	http://www.whitehouse.gov/sites/default/files/omb/memoranda/2011/m11-11.pdf
OMB Memorandum for Category Management Policy 15-1: Improving the Acquisition and Management of Common Information Technology: Laptops and Desktops (M-16-02)	https://www.whitehouse.gov/sites/default/files/omb/memoranda/2016/m-16-02.pdf

Standards and Guidelines

Document	Location
Federal Identity Credential and Access Management (FICAM) Roadmap and Implementation Guidance	http://www.idmanagement.gov/documents/ficam-roadmap-and-implementation-guidance
National Institute of Standards and Technology (NIST) Special Publications (SP), 800 Series	http://csrc.nist.gov/publications/PubsSPs.html
NIST Information Security Automation Program (ISAP) Automating Vulnerability Management, Security Measurement, and Compliance, Version 1.0 Beta, 5/22/2007	http://nvd.nist.gov/scap/docs/ISAP.doc
NIST Security Configuration Checklist	http://checklists.nist.gov/
Federal Information Processing Standards (FIPS)	http://csrc.nist.gov/publications/PubsFIPS.html
OMB Memorandum, E-Authentication Guidance for Federal Agencies (M-04-04)	http://www.whitehouse.gov/sites/default/files/omb/assets/omb/memoranda/fy04/m04-04.pdf
GAO IT Investment Management	http://www.gao.gov/new.items/d04394g.pdf
DHS Continuous Diagnostic and Mitigation program	http://www.dhs.gov/cdm
FedRAMP Security Assessment Framework	http://cloud.cio.gov/fedramp
Federal Electronics Challenge (FEC)	http://www2.epa.gov/fec
Federal Enterprise Architecture	http://www.whitehouse.gov/omb/e-gov/fea/
NARA Bulletin 2011-03, Guidance Concerning the use of E-mail Archiving Applications to Store E-mail	http://www.archives.gov/records-mgmt/bulletins/2011/2011-03.html
NARA Bulletin 2010-05, Guidance on Managing Records in Cloud Computing Environments	http://www.archives.gov/records-mgmt/bulletins/2010/2010-05.html

HUD Policies, Standards, Procedures and Guidelines

Document	Location
HUD Information Technology Strategy 2013 - 2017	http://portal.hud.gov/hudportal/documents/huddoc?id=itstratplan4.docx
HUD's Project Planning and Management V2.0 (PPM V2.0)	http://portal.hud.gov/hudportal/HUD?src=/program_offices/cio/ppm
Housing DIAMS Architecture Extension V1.0, November 11, 2013	Internal Document
Build Guide: HUD Enterprise Directory Services Proof Of Concept V1.0, Oct 18, 2013	Internal Document
HUD's 5 Year Strategy to Implement FICAM	Internal Document

D.2 Other References

Document	Location
NASA Solutions for Enterprise-Wide Procurement (SEWP)	http://www.sewp.nasa.gov/contract_info.shtml
General Services Administration (GSA) IT Schedule 70, Special Item Number 132-8 (Purchase of Hardware) and 132-12 (Maintenance and Repair Parts/Service for Hardware)	http://www.gsa.gov/portal/content/104506
Department of Health and Human Services (HHS), National Institutes of Health (NIH), NITAAC Chief Information Officer-Commodities and Solutions (CIO-CS)	https://nitaac.nih.gov/nitaac/contracts/cio-cs
Information Technology Infrastructure Library (ITIL) 2011	http://www.itil-officialsite.com/

Exhibit E Current HUD Environment

Mainframe servers consist of:

- IBM
- Unisys.

Mainframe servers are connected to the storage that is indicated below, and, there is also an Automated Tape Library (ATL) for backup/Disaster Recovery (DR)/archive.

Nearly all servers are virtualized (i.e., private cloud):

1. 640 Windows virtual servers running Windows Server 2003; migrating to 2008, and if possible, will migrate to 2012
2. 689 Linux virtual servers
3. 327 UNIX servers still on physical servers; they are planned to be migrated to Linux virtual servers by the end of 2015
4. Legacy Mainframes internally virtualized.

The plan is to increase the capacity of the Linux servers and add additional components to the SOA suite (Master Data Management, Financial Analytics and Governance), to handle migration of two major mainframe applications to open source and SOA.

SOA is running on virtualized Linux currently (200+ servers); a new set of Chief Financial Officer (CFO) financial applications (Newcore) is being completed in this environment, and will make it even easier to go to the cloud, due to standardized APIs, Databases (DBs), and platforms.

All of the servers in the Data Centers are HP G8 Blade Servers; and will upgrade to the most current version of the Blade Server when available. Storage is EMC and 3PAR (3PAR is owned by HP), which provides 800TB-1PetaByte of storage.

All business applications are on the mainframes and servers in the West Virginia Data Center run by HP.

All End User, LAN, email, and VTC services, are in the Lockheed Data Center in Lanham, MD.

Exhibit F Service Ticket Volume

The recorded volume of tickets received over a 12 month period is indicated below.

	HELP DESK	Other	Grand Total
Changes	16,830	7,023	23,853
Incidents	154,245	18,930	173,175
Problems	1	13	14
Requests	9,969	19,934	29,903
Grand Total	181,045	45,900	226,945

Exhibit G Software Licenses

To be Added with Final Solicitation

Exhibit H Deliverables

Description	Schedule
Program Management	
Project Management Plan (PMP) 5 Year Plan	Annually Draft with proposal submission - updated within 30 days after contract award notice to proceed
Program Status Report	Monthly
Program Management Plans for new projects approved by HUD	Weekly
E-Discovery System Alerts and Baseline Reports	Quarterly
Program Management Effectiveness	Monthly
Cost Performance Report	Monthly - only during Cost Reimbursement periods
Contract Funds Status Report	Monthly
Contractor Inputs to Business Resumption Plan	Annually
Configuration Management Plan	Annually
Configuration Management Effectiveness Status Report	Monthly
Integrated Release Management Plan (IRM)	Annually

Description	Schedule
Change Management Plan	Annually
Quality Control Plan	Annually With proposal submission-updated within ten (10) business days of any change
Communications Management Plan	15 days after contract start date
Cloud Services Reporting	Monthly
Migration Plan	Ongoing, as required
IT Infrastructure	
Concept of Operations (CONOPS)	Annually
Inventory Reconciliation Report	One Time
Facilities Site Survey Report	Annually
Government Property Report	Annually
Hardware Top Level Design	Annually
Service Dashboard	Ongoing Online
Engineering and Design Documentation, for escalation procedures, software client user guides, service upgrades, enhancements, new technology adoption etc.	Ongoing, and as requested by HUD
Transition Phases	
Transition Plan	With proposal submission and updated within 180 days of Contract Award
Phase-Out Transition Plan	Beginning of Phase +30 days
Risk Assessment and Mitigation Plan	Weekly, during Transition-In Contract Phase
Transition-In and Transition-Out Status Reports	Weekly during Transition-in and Transition-Out Phases
Customer Service Plan	One Time, prior to the transition-in phase of the VDI solution
Roll-Back Plan	One Time; only, in the event that the transition cannot be accomplishment

Description	Schedule
Contractors Coordination Meetings and Minutes	All scheduled meeting minutes provided within 2 business days after the meeting
Training	
Basic Training Services and Training Plans (end user services, applications, system components, methodologies, technical processes, tools, HUD requested training, etc.)	Ongoing, as required
Successor Training Plan for E-Discovery	Within 30 days after receipt of direction from the Contracting Officer
Technology	
Technology Assessment Reports	Minimum of 4 per year
Software License Management and Operations Handbook	One time for HUD approval
Technology Assessment White Paper	2 per year
Technology Forums	Semi-annual
Wireless Roadmap	One Time
Contractor input to HUD's Five Year Strategic Plan	Annually
Modernization/Technology Innovation Sessions	Monthly Meeting Sessions and Electronic Reports
Security	

Description	Schedule
System Security Plan (SSP)	Within 30 days after contract award notice to proceed or, if occurs earlier, with the Final Transition-In Plan Updated within 6 months prior to the expiration of the ATO
Risk Assessment	Within 30 days after contract award notice to proceed or, if occurs earlier, with the Final Transition-In Plan Updated within 6 months prior to the expiration of the ATO date
FISMA Reports, in Security Automation Protocol (SCAP) compliant formats, and human-readable formats: 1) Configuration management: Common Configuration Enumeration: (CCE) 2) Vulnerability management: Common Vulnerabilities and Exposures (CVE) 3) Asset management: Common Platform Enumeration (CPE) Note: These reports to include any follow-on requirements that are approved to meet FISMA compliance.	Monthly
Plan of Action and Milestones (POA&Ms)	As needed based on findings from security assessments and reviews
Contingency Plan	Due within 6 months prior to the expiration of the ATO date
Security Test and Evaluation (ST&E) Plans that includes all required FISMA Security Testing requirements	Within 60 days of task order notice to proceed

Description	Schedule
Security Assessment Results	Within 6 months prior to the expiration of the ATO date
Intrusion Detection System (IDS), Firewall and Perimeter Control Device Report for Weekly (OCIO) IT Operations Security Meeting	Weekly
Software license and Anti-virus software Compliance reports	Ongoing
US-CERT Report and HUD-CIRT Service Desk Ticket	Per computer incident occurrence in accordance with HUD's Incident Response procedure schedule 1 Electronic formatted version per incident
Ad hoc security documentation updates, industry best practice white papers, security consultant advisory guidance, and incident response process improvement and tool recommendations	Ad hoc, as completed
Security Concept of Operations (CONOPS)	One Time
Technical Performance	
Service Desk Operating Statistics	Ongoing On HEAT Service Dashboard
Application Usage Report and Capacity Report	Daily
Application Usage Report and Capacity Summary Report	Weekly

Description	Schedule
SI/End User Actions/Issues Report	Daily
SI/End User SLA Performance Indicators & Trends	Daily
SI/End User SLA Performance Report	Weekly
Prepare an overall summary report on all service requirements specified in the SOO as to whether the requirement has been achieved and a correction plan for those that have not been achieved, including all third party independent reviews, etc.	Quarterly
Performance Modeling Plan	Monthly
Performance and Capacity Planning Report	Monthly
Small Business Utilization Report	Semi-annually (GSA Form SF294, Subcontracting Report for Individual Contracts) and Annually (GSA Form SF295 Summary Subcontract Report)
Application Response Time Report	Monthly
Analysis of System Integrity Effectiveness Status Reports which will include: 1) Account Changes Completed On-time by Type 2) IDS Signature & Firewall Policy Updates, and Patches Completed On-time 3) Incidents Resolved On-time 4) FISMA Compliance Records Reported 5) Employees and Subcontractors Participating in Security Training 6) Plan of Action and Milestones On-Time 7) Other Activities	Monthly

Description	Schedule
Disaster Recovery	
Disaster Recovery Plan Reports: Reports to document review findings on required plan updates, and the actions taken	Quarterly
Disaster Recovery Effectiveness Status Report to include: 1) Percentage of Successful DR Milestones 2) Recovery Time 3) Failed DR Tests Resolved within 90 Days 4) COOP Restore Time 5) Disaster Recovery Activities	Whenever DR tests are ran
System Testing	
Acceptance Test Plan	With Final Transition Plan-updated semi-annually
System Test Reports (including security testing), New Add/Change DC/EU equipment	Ongoing; During system Testing Period before System Acceptance
HUD Strategy and Plan (testing new storage technologies)	
HUD Test Center Status Report	Daily
Development Master Test Plan (DMTP) (captures pilot testing for new hw/sw)	Ongoing, as required
Operational Test Plan (OTP) (captures pilot testing for new hw/sw)	Ongoing, as required

Exhibit I HUD Process for Assessment and Authorization

The HUD Risk Management Framework process for assessment and authorization for IT services (non-cloud based) is presented by the following illustration.



Note: Cloud based systems (IaaS, PaaS and SaaS) follow the FedRAMP process.

Exhibit J Acronyms and Abbreviations

Term	Definition
AD	Active Directory
ADC	Application Delivery Controller
ANSI	American National Standards Institute
API	Application Program Interface
APM	Application Performance Management
AT	Assistive Technology
ATL	Automated Tape Library
ATO	Authorization to Operate
AWS	Amazon Web Services
A/V	Audio/Video
BYOD	Bring Your Own Device
CA	Credential and Access
CCE	Common Configuration Enumeration
CFO	Chief Financial Officer
CIO	Chief Information Officer
CO	Contracting Officer
COOP	Continuity of Operations
COTS	Commercial Off-The-Shelf
CPE	Common Platform Enumeration
CTO	Chief Technology Officer
CVE	Common Vulnerabilities and Exposures
DaaS	Desktop as a Service
DB	Databases
DC	Data Center
DCS	Data Center Service
DHCP	Dynamic Host Configuration Protocol
DHS	Department Of Homeland Security
DMTP	Development Master Test Plan
DNS	Domain Name System
DR	Disaster Recovery
DRP	Disaster Recovery Plan
DVD	Digital Versatile Disc

Term	Definition
ESI	Electronically Stored Information
EU	End User
EUS	End User Service
FDCCI	Federal Data Center Consolidation Initiative
FedRAMP	Federal Risk and Authorization Management Program
FEMA	Federal Emergency Management Agency
FICAM	Federal Identity Credential and Access Management
FIPS	Federal Information Processing Standard
FISMA	Federal Information Security Management Act
FOIA	Freedom of Information Act
FSSI	Federal Strategic Sourcing Initiative
GAO	Government Accountability Office
GFE	Government Furnished Equipment
GOTS	Government off-the-shelf
GSA	General Services Administration
HEAT	HUD Enterprise & Architecture Transformation
HOC	Homeownership Center
HP	Hewlett-Packard Company
HQ	Headquarters
HUD	U.S. Department of Housing and Urban Development
HUD-CIRT	HUD's Computer Incident Response Team
HW	Hardware
IaaS	Infrastructure as a Service
ICAM	Identity, Credential and Access Management
IMAC	Install, Move, Add or Change
IP	Internet Protocol
ISCM	Information Security Continuous Monitoring
ISO	International Organization for Standardization
IT	Information Technology
ITIL	Information Technology Infrastructure Library
ITSM	Information Technology Service Management
IV&V	Independent Verification and Validation
LAN	Local Area Network

Term	Definition
LB	Load Balancer
LPR	Laws, Policies, and Regulations
MDM	Mobile Device Management
MFD	Multi-function Device
MPLS	Multiprotocol Label Switching
MTIPS	Managed Trusted Internet Protocol
NARA	National Archives and Records Administration
NIST	National Institute of Standards and Technology
O&M	Contract Operations and Maintenance
OCIO	Office of Chief Information Officer
OGC	Office of General Council
OIG	Office of Inspector General
OMB	Office of Management and Budget
OS	Operating System
OTP	Operational Test Plan
PaaS	Platform as a Service
PC	Personal Computer
PII	Personally Identifiable Information
PIV	Personal Identity Verification
PPM	Project Planning and Management
PSTN	Public Switched Telephone Network
QA	Quality Assurance
RUU	ROM Update Utility
SaaS	Software as a Service
SAN	Storage Area Network
SCAP	Security Automation Protocol
SCI	Secure Compartmentalized Information
SEWP	NASA Solutions for Enterprise-Wide Procurement
SFF	Small Form Factor
SI	System Integrator
SIRM	Security Incident Response Management
SLA	Service Level Agreement
SOA	Service-Oriented Architecture
SOC	Security Operations Center

Term	Definition
SOO	Statement of Objectives
SQL	Structured Query Language
ST&E	Security Test and Evaluation
SW	Software
TBD	To Be Determined
TS	Top Secret
TV	Television
UAT	User Acceptance Testing
USB	Universal Serial Bus
US-CERT	US Computer Emergency Readiness Team
USGCB	United States Government Configuration Baseline
VDI	Virtual Desktop Infrastructure
VLAN	Virtual LAN
VM	Virtual Machines
VoIP	Voice over IP
VPN	Virtual Private Network
VTC	Video Teleconference
WAN	Wide Area Network

Exhibit K Glossary

Term	Definition
Acquisition	Procurement of appropriate goods and/or services at the best possible total cost of ownership (TCO) to meet the needs of the purchaser in terms of quality and quantity, time, and location. Corporations and public bodies often define processes intended to promote fair and open competition for their business while minimizing exposure to fraud and collusion.
Asset	Component of a business process. Assets can include people, accommodation, computer systems, networks, paper records, fax machines, etc.
Availability	Ability of a component or service to perform its required function at a stated instant or over a stated period of time. It is usually expressed as the availability ratio, i.e., the proportion of time that the service is actually available for use by the customers within the agreed service hours.
Best Practice	A technique or methodology that, through experience and research, has proven to reliably lead to a desired result and that is used as a benchmark.
Change	The addition, modification or removal of approved, supported or baseline hardware, network, software, application, environment, system, PC build or associated documentation.
Change Management	Process of controlling changes to the infrastructure or any aspect of services, in a controlled manner, enabling approved changes with minimum disruption.
Cloud Computing	A pay-per-use model for enabling convenient, on-demand network access to a shared pool of configurable and reliable computing resources (e.g., networks, servers, storage, applications, services) that can be rapidly provisioned and released with minimal consumer management effort or service provider interaction (NIST definition).
Configuration Management	The process of identifying and defining Configuration Items in a system, recording and reporting the status of Configuration Items and Requests For Change, and verifying the completeness and correctness of Configuration Items.
Continuity of Operations (COOP)	Refers to the preparations and institutions maintained by the United States Government, providing survival of Federal government operations in the case of catastrophic events.
Contract	A legally binding agreement between two or more parties which, if it contains the elements of a valid legal agreement, is enforceable by law or by binding arbitration. A legally enforceable contract is an exchange of promises with specific legal remedies for breach.
Contract Management	The management of contracts made with customers, vendors, partners, or employees. Contract management includes negotiating the terms and conditions in contracts and ensuring compliance with the terms and conditions, as well as documenting and agreeing on any changes that may arise during its implementation or execution. It can be summarized as the process of systematically and efficiently managing contract creation, execution, and analysis for the purpose of maximizing financial and operational performance and minimizing risk.

Contracting Officer (CO)	A person with authority to enter into, administer, and/or terminate contracts and make related determinations and findings on behalf of the Government. Note: the only individual who can legally bind the Government.
Contractor	A supplier or vendor awarded a contract to provide specific supplies or service to the Government. The term used in this contract refers to the prime.
Core Hours	7:00 AM - 8:00 PM EDT, Monday through Friday, excluding Federal holidays
Cost	The value of money that has been used up to produce something and hence is not available for use anymore. Cost may be one of acquisition, where the amount of money expended to acquire it is counted as cost. Money is the input that is gone in order to acquire it. Acquisition cost may be the sum of the cost of production as incurred by the producer, and further costs of transaction incurred by the acquirer over and above the price paid to the producer.
Cost Effectiveness	Ensuring that there is a proper balance between the <u>Quality</u> of Service on the one side and expenditure on the other. Any investment that increases the costs of providing IT services should always result in enhancement to service quality or quantity.
Data Center	A facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes redundant or backup power supplies, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices.
Defective Service	A service output that does not meet the standard of performance associated with the Performance Work Statement.
Deliverable	Anything that can be physically delivered, but may include non-manufactured things such as meeting minutes or reports.
Development	Server/servers designated for system development. System developers are allowed full access to this environment. This is sometimes called a sandbox environment.
Disaster Recovery	The process, policies and procedures related to preparing for recovery or continuation of technology infrastructure critical to an organization after a natural or human-induced disaster. Disaster recovery is a subset of business continuity. While business continuity involves planning for keeping all aspects of a business functioning in the midst of disruptive events, disaster recovery focuses on the IT or technology systems that support business functions.
End-user	Economics and commerce define an end-user as the person who uses a product. The end-user or consumer may differ from the person who purchases the product.
Environment	A collection of hardware, software, network communications and procedures that work together to provide a discrete type of computer service. There may be one or more environments on a physical platform, e.g., test, production. An environment has unique features and characteristics that dictate how they are administered in similar, yet diverse manners.
Federal Acquisition	The principal set of rules in the Federal Acquisition Regulation System. This system consists of sets of regulations issued by agencies of the Federal

Regulation (FAR)	government to govern what is called the "acquisition process," which is the process through which the Government purchases ("acquires") goods and services.
Governance	The structure, process, and procedure to control operations and changes to performance objectives. Governance must include a set of metrics to indicate the health and progress of the program in the most vital areas.
IT Infrastructure	IT infrastructure consists of the equipment, systems, software, and services used in common across an organization, regardless of mission/program/project. An IT Infrastructure also serves as the foundation upon which mission/program/project-specific systems and capabilities are built.
Litigation Hold	Effectively creates an immutable copy (retains records in their authentic state regardless of disposition date) of the account maintained while the end-user continues to function normally, and may be established and used by authorized agency representatives to monitor a user's files and communications for purposes such as evidence in legal proceedings, investigating insider threat suspicions, or investigating cyber security incidents.
Local Area Network (LAN)	A computer network covering a small physical area, like a home, office, or small groups of buildings, such as a school, or an airport. The defining characteristics of LANs, in contrast to wide area networks (WANs), include their usually higher data-transfer rates, smaller geographic area, and lack of a need for leased telecommunication lines. ARCNET, Token Ring and other technologies have been used in the past, but <u>Ethernet</u> , over <u>twisted pair</u> cabling, and Wi-Fi are the two most common technologies currently in use.
Mobile Computing	Mobile Computing is "taking a computer and all necessary files and software out into the field."
Performance	Accomplishment of a given task measured against preset standards of accuracy, completeness, cost, and speed.
Performance Metrics	A measure of an organization's activities and performance. Performance metrics should support a range of stakeholder needs from customers, shareholders to employees. While traditionally many metrics are financed based, inwardly focusing on the performance of the organization, metrics may also focus on the performance against customer requirements and value. In project management, performance metrics are used to assess the health of the project and consist of the measuring of six criteria: time, cost, resources, scope, quality, and actions.
Production	Server/servers that run the live production versions of business applications. Access to production environments is controlled and limited.
Program Management	The process of managing several related projects, often with the intention of improving an organization's performance. Program Management also emphasizes the coordinating and prioritizing of resources across projects, managing links between the projects and the overall costs and risks of the program.
Physical Security	Actions that prevent the loss or damage of Government property.
Quality Assurance (QA)	Policies and procedures adopted by the Government to ensure that supplies and services acquired under Government contracts conform to the contract's quality requirements.

Remote Access	Pertaining to communication with a data processing facility from a remote location or facility through a data link. One of the more common methods of providing this type of remote access is using a Virtual Private Network (VPN).
Risk Management	The identification, assessment, and prioritization of risks (defined in ISO 31000 as <i>the effect of uncertainty on objectives</i> , whether positive or negative) followed by coordinated and economical application of resources to minimize, monitor, and control the probability and/or impact of unfortunate event or to maximize the realization of opportunities.
Service Level Agreement (SLA)	A negotiated agreement between two parties where one is the customer and the other is the service provider. This can be a legally binding formal or informal "contract" (see internal department relationships).
Staging/User Acceptance Testing (UAT)	Server/servers that support the process of verifying that a solution works for the intended users. Staging/UAT acts as a final verification of the required business functionality and proper functioning of the system, emulating real-world usage conditions on behalf of the paying client or a specific large customer. If the software works as required and without issues during normal use, one can reasonably extrapolate the same level of stability in production. Access to this environment is controlled and limited. (Note: Some HUD applications will choose to use the Test Server for UAT purposes.)
Statement of Objectives	A statement of work for performance based acquisitions that states the overall performance objectives; used in solicitations when the Government intends to provide the maximum flexibility to each Offeror to propose an innovative approach.
SubContractor	Any person , other than the prime Contractor, who offers to furnish or furnishes any supplies, material, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subContractor. The Government does not have privity of contract with a subContractor.
Test	Server/servers that allow system engineers and/or developers to test, evaluate, and confirm that the output from development meets the design requirements for the system under development. System developers are allowed full access to this environment.
Wide Area Network (WAN)	A computer network that covers a broad area (i.e., any network whose communications links cross metropolitan, regional, or national boundaries. This is in contrast with personal area networks (PANs), local area networks (LANs), campus area networks (CANs), or metropolitan area networks (MANs) which are usually limited to a room, building, campus or specific metropolitan area (e.g., a city) respectively.
Work Day	The number of hours per day the Contractor provides services in accordance with the contract.
Work Week	Monday through Friday, unless specified otherwise (for non-continental US sites, would accommodate the normal work week).

Packaging and Marking Section D

Inspection and Acceptance Section E

2452.246-70 Inspection and acceptance. (FEB 2006)

Deliveries or Performance Section F

2452.211-70 Effective date and contract period. (FEB 2006) - Alternate I (FEB 2006)

- (a) This contract shall be effective on____[*Contracting Officer insert date at award*].
- (b) The contractor shall complete all work including all deliveries by____[*Contracting Officer insert date at award*].
- (c) Delivery dates for specific services and deliverables shall be as set forth in the Schedule.
- (d) In accordance with the clause at 52.217-9, "Option to Extend the Term of the Contract," the contract may be extended for the following periods:

Option No.	Period
[list]	[dates]

(End of clause)

Contract Administration Data Section G

Special Contract Requirements Section H

Contract Clauses Section I

52.252-2 Clauses Incorporated by Reference. (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address (es): <http://farsite.hill.af.mil> ; <https://www.acquisition.gov/>

(End of clause)

52.217-8 Option to Extend Services (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor no later than 10 days prior to the expiration of the contract. (End of Clause)

52.217-9 Option to Extend the Term of the Contract (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor no later than 30 days prior to the expiration of the contract; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension. (b) If the Government exercises this option, the extended contract shall be considered to include this option clause. (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed the period of time set in the Schedule except that extensions pursuant to FAR 52.217-8 permit the duration to extend up to 6 months beyond the stated limit. (End of Clause)

2452.203-70 Prohibition against the use of government employees. (FEB 2006)**2452.204-70 Preservation of, and access to, contract records (tangible and electronically stored information (ESI) formats). (DEC 2012)**

(a) For the purposes of this clause-

Contract records means information created or maintained by the contractor in the performance of the contract. Contract records include documents required to be retained in accordance with FAR 4.703 and other information generated or maintained by the contractor that is pertinent to the contract and its performance including, but not limited to: email and attachments, formal and informal

correspondence, calendars, notes, reports, memoranda, spreadsheets, tables, telephone logs, forms, survey, books, papers, photographs, drawings, machine-readable materials, and data. Contract records may be maintained as electronically stored information or as tangible materials. Contract records may exist in either final or any interim version (e.g., drafts that have been circulated for official purposes and contain unique information, such as notes, edits, comments, or highlighting). Contract records may be located or stored on the contractor's premises or at off-site locations.

Electronically stored information (ESI) means any contract records that are stored on, or generated by, an electronic device, or contained in electronically accessible media, either owned by the contractor, subcontractor(s), or employees of the contractor or subcontractor(s) regardless of the physical location of the device or media (e.g., offsite servers or data storage). ESI devices and media include, but are not be limited to:

- (1) Computers (mainframe, desktop, and laptop);
- (2) Network servers, including shared and personal drives;
- (3) Individual email accounts of the contractor's principals, officers, and employees, including all folders contained in each email account such as "inbox," "outbox," "drafts," "sent," "trash," "archive," and any other folders;
- (4) Personal data assistants (PDAs);
- (5) External data storage devices including portable devices (e.g., flash drive); and
- (6) Data storage media (magnetic, e.g., tape; optical, e.g., compact disc, microfilm, etc.). Tangible materials means contract records that exist in a physical (i.e., non-electronic) state.

(b) If during the period of performance of this contract, HUD becomes, or anticipates becoming, a party to any litigation concerning matters related to records maintained or generated by the Contractor in the performance of this contract, the Contracting Officer may provide the contractor with a written (either hardcopy or email) preservation hold notice and certification of compliance with the preservation hold notice. Upon receipt of the hold notice, the Contractor shall immediately take the following actions-

- (1) Discontinue any alteration, overwriting, deletion, or destruction of all tangible materials and ESI.

(2) Preserve tangible materials and ESI. The contractor shall preserve ESI in its "native" form to preserve metadata (i.e., creation and modification history of a document).

(3) Identify all individuals who possess or may possess tangible materials and ESI related to this matter, including contractor employees, subcontractors, and subcontractor employees. The contractor shall provide the names of all such individuals via email to the HUD official indicated in the notice.

(4) Document in writing the contractor's efforts to preserve tangible materials and ESI. It may be useful to maintain a log documenting preservation efforts.

(5) Complete the certification of compliance with the preservation hold notice upon receipt and return it to the identified contact person; and

(6) Upon the request of the Contracting Officer, provide the Contracting Officer or other HUD official designated by the Contracting Officer with any of the information described in this clause. The contractor shall immediately confirm receipt of such request. The contractor shall describe in detail any records that the contractor knows or believes to be unavailable and provide a detailed explanation of why they are unavailable, and if known, their location.

(c)(1) If any request for records pursuant to paragraph (b)(6) of this clause causes an increase in the estimated cost or price or the time required for performance of any part of the work under this contract, or otherwise affects any other terms and conditions of this contract, the Contracting Officer shall make an equitable adjustment in the contract price, the delivery schedule, or both, and shall modify the contract.

(2) The Contractor must assert its right to an adjustment under this clause within [___] (Contracting Officer insert period; 30 days if no other period inserted) from the date of receipt of the Contracting Officer's request made pursuant to paragraph (b)(6) of this clause. However, if the Contracting Officer decides that the facts justify it, the Contracting Officer may receive and act upon a request submitted before final payment of the contract.

(3) Failure to agree to any adjustment shall be a dispute under the "Disputes" clause of this contract. However, nothing in this clause shall excuse the contractor from providing the records requested by the Contracting Officer.

(e) The Contractor shall include this clause in all subcontracts.

(End of clause)

2452.204-70 Preservation of, and access to, contract records (tangible and electronically stored information (ESI) formats). (DEC 2012) - Alternate II (DEC 2012)

(a) For the purposes of this clause-

Contract records means information created or maintained by the contractor in the performance of the contract. Contract records include documents required to be retained in accordance with FAR 4.703 and other information generated or maintained by the contractor that is pertinent to the contract and its performance including, but not limited to: email and attachments, formal and informal correspondence, calendars, notes, reports, memoranda, spreadsheets, tables, telephone logs, forms, survey, books, papers, photographs, drawings, machine-readable materials, and data. Contract records may be maintained as electronically stored information or as tangible materials. Contract records may exist in either final or any interim version (e.g., drafts that have been circulated for official purposes and contain unique information, such as notes, edits, comments, or highlighting). Contract records may be located or stored on the contractor's premises or at off-site locations.

Electronically stored information (ESI) means any contract records that are stored on, or generated by, an electronic device, or contained in electronically accessible media, either owned by the contractor, subcontractor(s), or employees of the contractor or subcontractor(s) regardless of the physical location of the device or media (e.g., offsite servers or data storage). ESI devices and media include, but are not be limited to:

- (1) Computers (mainframe, desktop, and laptop);
- (2) Network servers, including shared and personal drives;
- (3) Individual email accounts of the contractor's principals, officers, and employees, including all folders contained in each email account such as "inbox," "outbox," "drafts," "sent," "trash," "archive," and any other folders;
- (4) Personal data assistants (PDAs);
- (5) External data storage devices including portable devices (e.g., flash drive); and

(6) Data storage media (magnetic, e.g., tape; optical, e.g., compact disc, microfilm, etc.). Tangible materials means contract records that exist in a physical (i.e., non-electronic) state.

(b) If during the period of performance of this contract, HUD becomes, or anticipates becoming, a party to any litigation concerning matters related to records maintained or generated by the Contractor in the performance of this contract, the Contracting Officer may provide the contractor with a written (either hardcopy or email) preservation hold notice and certification of compliance with the preservation hold notice. Upon receipt of the hold notice, the Contractor shall immediately take the following actions-

(1) Discontinue any alteration, overwriting, deletion, or destruction of all tangible materials and ESI.

(2) Preserve tangible materials and ESI. The contractor shall preserve ESI in its "native" form to preserve metadata (i.e., creation and modification history of a document).

(3) Identify all individuals who possess or may possess tangible materials and ESI related to this matter, including contractor employees, subcontractors, and subcontractor employees. The contractor shall provide the names of all such individuals via email to the HUD official indicated in the notice.

(4) Document in writing the contractor's efforts to preserve tangible materials and ESI. It may be useful to maintain a log documenting preservation efforts.

(5) Complete the certification of compliance with the preservation hold notice upon receipt and return it to the identified contact person; and

(6) Upon the request of the Contracting Officer, provide the Contracting Officer or other HUD official designated by the Contracting Officer with any of the information described in this clause. The contractor shall immediately confirm receipt of such request. The contractor shall describe in detail any records that the contractor knows or believes to be unavailable and provide a detailed explanation of why they are unavailable, and if known, their location.

(c)(1) If any request for records pursuant to paragraph (b)(6) of this clause causes an increase in the estimated cost or price or the time required for performance of any part of the work under this contract, or otherwise affects any other terms and conditions of this contract, the Contracting Officer shall make an equitable

adjustment in any one or more of the following and will modify the contract accordingly:

- (i) Ceiling price;
- (ii) Hourly rates;
- (iii) Delivery schedule; or
- (iv) Other affected terms.

(2) The Contractor must assert its right to an adjustment under this clause within [___] (Contracting Officer insert period; 30 days if no other period inserted) from the date of receipt of the Contracting Officer's request made pursuant to paragraph (b)(6) of this clause. However, if the Contracting Officer decides that the facts justify it, the Contracting Officer may receive and act upon a request submitted before final payment of the contract.

(3) Failure to agree to any adjustment shall be a dispute under the "Disputes" clause of this contract. However, nothing in this clause shall excuse the contractor from providing the records requested by the Contracting Officer.

(e) The Contractor shall include this clause in all subcontracts.

(End of clause)

2452.209-72 Organizational conflicts of interest. (APR 1984)

2452.219-70 Small business subcontracting plan compliance. (FEB 2006)

2452.219-73 Incorporation of subcontracting plan. (DEC 2012)

The Contractor's approved subcontracting plan, dated [___] (*Contracting Officer insert date*) is hereby incorporated by reference and made a part of this contract.

(End of Clause)

2452.222-70 Accessibility of meetings, conferences, and seminars to persons with disabilities. (FEB 2006)

2452.227-70 Government information. (DEC 2012)

(a) *Definitions.* As used in this clause, "Government information" includes-

Contractor-acquired information, which means information acquired or otherwise collected by the Contractor on behalf of the Government in the context of the Contractor's duties under the contract.

Government-furnished information (GFI), which means information in the possession of, or directly acquired by, the Government and subsequently furnished to the Contractor for performance of a contract. GFI also includes contractor-acquired information if the contractor-acquired information is a deliverable under the contract and is for continued use under the contract. Otherwise, GFI does not include information that is created by the Contractor and delivered to the Government in accordance with the requirements of the work statement or specifications of the contract. The type, quantity, quality, and delivery requirements of such deliverable information are set forth elsewhere in the contract schedule.

(b) *Information Management and Information Security.*

(1) The Contractor shall manage, account for, and secure all Government information provided or acquired by the contractor. The Contractor shall be responsible for all Government information provided to its subcontractors. The Contractor agrees to include a requirement in each subcontract under this contract that flows down the protection from disclosure requirements.

(2) The Contractor's responsibility for Government information extends from the initial provision or acquisition and receipt of information, through stewardship, custody, and use until returned to, or otherwise disposed of, as directed by the Contracting Officer. This requirement applies to all Government information under the Contractor's accountability, stewardship, possession or control, including its subcontractors.

(c) *Use of Government information.* (1) The Contractor shall not use any information provided or acquired under this contract for any purpose other than in the performance of this contract.

(2) The Contractor shall not modify or alter the Government information, unless authorized in writing, in advance, by the Contracting Officer.

(d) *Government-furnished information.* (1) The Government shall deliver to the Contractor the information described below-

Description [] Date to be Provided [] (Contracting Officer insert)

(2) The delivery and/or performance dates specified in this contract are based upon the expectation that the Government-furnished information will be suitable for contract performance and will be delivered to the Contractor by the dates stated in paragraph (d)(1) of this clause.

(i) The Government does not warrant the validity or accuracy of the Government-furnished information unless otherwise noted.

(ii) In the event that information received by the Contractor is not in a condition suitable for its intended use, the Contractor shall immediately notify the Contracting Officer in writing. Upon receipt of the Contractor's notification, the Contracting Officer shall advise the Contractor on a course of action to remedy the problem.

(iii) If either the failure of the Government to provide information to the Contractor by the dates shown in this clause or the remedial action taken under this clause to correct defective information causes an increase or decrease in the Contractor's cost of, or the time required for, the performance of any part of the work under this contract, the Contracting Officer shall consider an equitable adjustment to the contract. The Contractor shall provide to the Contracting Officer its written statement describing the general nature and amount of the equitable adjustment proposal within 30 days after the remedial action described in paragraph (ii) herein is completed, or within 30 days after the date upon which the Government failed to provide information, unless the Contracting Officer extends this period.

(3)(i) The Contracting Officer may, by written notice, at any time-

(A) Increase or decrease the amount of Government-furnished information under this contract;

(B) Substitute other Government-furnished information for the information previously furnished, to be furnished, or to be acquired by the Contractor for the Government under this contract; or

(C) Withdraw authority to use the information.

(ii) Upon completion of any action(s) under paragraph (d)(3)(i) of this clause, and the Contractor's timely written request, the

Contracting Officer shall consider an equitable adjustment to the contract.

(e) *Rights in information.* Government information is the property of the U.S. Government unless otherwise specifically identified. The specific rights in any other information acquired or created by the Contractor under this contract shall be as expressed in the "*Rights in Data*" clause contained in this contract.

(f) *Government access to information.* The Government shall have the right to access any Government information maintained by the contractor and any subcontractors. The Contractor shall provide the Contracting Officer, and other duly authorized Government representatives, with access to all Government information, including access to the Contractor's facilities, as necessary, promptly upon written notification by the Contracting Officer. Such notification may be by electronic mail.

(g) *Contractor liability for Government information.* (1) Unless otherwise provided for in the contract, the Contractor shall not be liable for loss, theft, damage, or destruction to the Government information furnished or acquired under this contract, except when the loss, theft, damage, or destruction is the result of the Contractor's failure to properly manage, account for, and safeguard the information in accordance with this clause.

(2) In the event of any loss, theft, damage, or destruction of Government information, the Contractor shall immediately take all reasonable actions necessary to protect the Government information from further loss, theft, damage, or destruction.

(3) The Contractor shall do nothing to prejudice the Government's rights to recover against third parties for any loss, theft, damage, or destruction of Government information.

(h) *Information alteration and disposal.* Except as otherwise provided for in this contract, the Contractor shall not alter, destroy, or otherwise dispose of any Government information unless expressly directed by the Contracting Officer to do so.

(i) *Return of Government information to the Government.* (1) The Government may require the Contractor to return Government Information to the Government at any time. Upon demand by the Contracting Officer or his/her representative, the Contractor shall return all Government information to the Government as directed by the Contracting Officer or other individual designated by the Contracting Officer.

(2) The Contractor's failure to return all information as directed,

including directions regarding the time frames for delivery back to the Government and directions prescribing the form in which the data must be returned, shall be considered a breach of contract, and the Government shall have the right to physically remove the Government information from the Contractor, including removal of such information from the Contractor's physical premises and from any electronic media (e.g., Contractor's computer systems).

(3) When required to return Government information to the Government, the Contractor shall do so at no cost to the Government. The Government shall not be responsible for the cost of data format conversion and the cost of delivery, if any.

(4) The Contractor shall ensure that all Government information provided to subcontractors is returned to the Government.

(j) *Equitable adjustment.* Equitable adjustments under this clause shall be made in accordance with the procedures of the Changes clause. However, the Government shall not be liable for breach of contract for the following:

(1) Any delay in delivery of Government-furnished information.

(2) Delivery of Government-furnished information in a condition not suitable for its intended use.

(3) An increase, decrease, or substitution of Government-furnished information.

(4) Failure to correct or replace Government information for which the Government is responsible.

(k) Subcontracts. The Contractor shall ensure that all subcontracts under which Government information is provided to a subcontractor include the basic terms and conditions set forth in paragraphs (a), (b), (c), (f), and (h) of this clause in each subcontract. Subcontracts shall clearly describe the Government information provided to the subcontractor. The Contractor shall be responsible for all Government information provided to subcontractors.

(End of clause)

2452.232-70 Payment schedule and invoice submission (fixed-price). (DEC 2012)

(a) *Payment Schedule.* Payment of the contract price (see Section B of the contract) will be made upon completion and acceptance of all work unless a

partial payment schedule is included below (*Contracting Officer insert schedule information*):

Partial payment No.	Applicable contract deliverable	Delivery date	Payment amount
1. []	\$		
2. []	\$		
3. []	\$		

(Continue as necessary)

(b) Submission of Invoices. (1) The Contractor shall submit invoices as follows: original to the payment office and one copy each to the Contracting Officer and a copy to the Government Technical Representative (GTR) identified in the contract. To constitute a proper invoice, the invoice must include all items required by the FAR clause at 52.232-25, "Prompt Payment."

(2) To assist the government in making timely payments, the contractor is also requested to include on each invoice the appropriation number shown on the contract award document (e.g., block 14 of the Standard Form (SF) 26, block 21 of the SF-33, or block 25 of the SF-1449). The contractor is also requested to clearly indicate on the mailing envelope that an invoice is enclosed.

(c) Contractor Remittance Information. The contractor shall provide the payment office with all information required by other payment clauses or other supplemental information (e.g., contracts for commercial services) contained in this contract.

(d) Final Invoice Payment. The final invoice shall not be paid prior to certification by the Contracting Officer that all work has been completed and accepted.

(End of clause)

2452.232-72 Limitation of Government's obligation. (DEC 2012)

(a) Funds are not available for full funding of all contract line items under this contract. The incrementally funded line items and their anticipated funding schedule are as follows:

Contract line item number	Total price	Amount of current funding	Anticipated date(s) of future funding
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The contracting officer will revise this table as funds are allotted to the contract.

(b) For the incrementally funded line item(s) in paragraph (a) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination of those item(s) for the Government's convenience, approximates the total amount currently allotted to the contract for these contract line items. The Contractor is not authorized to continue work on the incrementally funded line item(s) beyond that point. The Government will in no event be obligated to reimburse the Contractor in excess of the amount allotted to the contract for the incrementally funded line item(s) regardless of anything to the contrary in the clause entitled "Termination for Convenience of the Government." As used in this clause, the total amount payable by the Government in the event of termination for convenience of applicable line item(s) includes costs, profit, and estimated termination settlement costs for those line item(s).

(c) Notwithstanding the dates specified in the allotment schedule in paragraph (a) of this clause, the Contractor will notify the Contracting Officer in writing at least (90 days unless the Contracting Officer inserts a different number) days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 85 percent of the total amount then allotted to the contract for performance of the applicable line item(s). This notification will state: the estimated date when that point will be reached; and an estimate of the amount of additional funding, if any, needed to continue performance of the applicable line items up to the next scheduled date for allotment of funds identified in paragraph (a) of this clause (or to another mutually agreed-upon date). The notification will also advise the Contracting Officer of the estimated amount of additional funds that will be required for the

timely performance of the line item(s) funded pursuant to this clause, for a subsequent period as may be specified in the allotment schedule in paragraph (a) of this clause or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed-upon date, the Contracting Officer will terminate any line item(s) for which additional funds have not been allotted, pursuant to the clause of this contract entitled "*Termination for Convenience of the Government*."

(d) When additional funds are allotted for continued performance of the incrementally funded line item(s), the parties will agree to the period of contract performance covered by the funds. The provisions of paragraphs (b) through (d) of this clause will apply in like manner to the additional allotted funds and agreed-upon date(s), and the contract will be modified accordingly.

(e) If the Contractor incurs additional costs or is delayed in the performance of the work under this contract solely by reason of the failure of the Government to allot additional funds in amounts sufficient for timely performance of the incrementally funded line item(s), and then additional funds are allotted, an equitable adjustment will be made in the line item price(s) or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder shall be considered a dispute subject to the "*Disputes*" clause in this contract.

(f) The Government may allot additional funds for the performance of the incrementally-funded line item(s) at any time prior to termination.

(g) The termination provisions of this clause do not limit the rights of the Government under the clause entitled "Default." The provisions of this clause are limited to the work and allotment of funds for the incrementally funded line item(s) and will no longer apply once the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (d) and (e) of this clause.

(h) Nothing in this clause affects the right of the Government to terminate this contract pursuant to the clause of this contract entitled "*Termination for Convenience of the Government*."

(i) Nothing in this clause shall be construed as authorization of voluntary services whose acceptance is otherwise prohibited under 31 U.S.C. 1342.

(End of clause)

2452.237-70 Key personnel. (FEB 2006)

(a) Definition. "Personnel" means employees of the contractor, or any

subcontractor(s), affiliates, joint venture partners, or team members, and consultants engaged by any of those entities.

(b) The personnel specified below are considered to be essential to the work being performed under this contract. Prior to diverting any of the specified individuals to other projects, the contractor shall notify the Contracting Officer reasonably in advance and shall submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on the program. No diversion shall be made by the contractor without the written consent of the Contracting Officer. Key personnel shall perform as follows: [*List Key Personnel and/or positions, and tasks, percentage of effort, number of hours, etc., for which they are responsible, as applicable.*]

(End of clause)

2452.237-75 Access to HUD facilities. (DEC 2012)

2452.237-77 Temporary closure of HUD facilities. (DEC 2012)

2452.239-70 Access to HUD systems. (DEC 2012)

(a) *Definitions:* As used in this clause-

Access means the ability to obtain, view, read, modify, delete, and/or otherwise make use of information resources.

Application means the use of information resources (information and information technology) to satisfy a specific set of user requirements (see OMB Circular A-130).

Contractor employee means an employee of the prime contractor or of any subcontractor, affiliate, partner, joint venture, or team members with which the contractor is associated. It also includes consultants engaged by any of those entities.

Mission-critical system means an information technology or telecommunications system used or operated by HUD or by a HUD contractor, or organization on behalf of HUD, that processes any information, the loss, misuse, disclosure, or unauthorized access to, or modification of which would have a debilitating impact on the mission of the agency.

NACI means a National Agency Check with Inquiries, the minimum background investigation prescribed by OPM.

PIV Card means the Personal Identity Verification (PIV) Card, the Federal Government-issued identification credential (i.e., identification badge).

Sensitive information means any information of which the loss, misuse, or unauthorized access to, or modification of, could adversely affect the national interest, the conduct of federal programs, or the privacy to which individuals are entitled under section 552a of title 5, United States Code (the Privacy Act), but which has not been specifically authorized under criteria established by an Executive Order or an Act of Congress to be kept secret in the interest of national defense or foreign policy.

System means an interconnected set of information resources under the same direct management control, which shares common functionality. A system normally includes hardware, software, information, data, applications, communications, and people (see OMB Circular A-130). System includes any system owned by HUD or owned and operated on HUD's behalf by another party.

(b) *General.* (1) The performance of this contract requires contractor employees to have access to a HUD system or systems. All such employees who do not already possess a current PIV Card acceptable to HUD shall be required to provide personal background information, undergo a background investigation (NACI or other OPM-required or approved investigation), including an FBI National Criminal History Fingerprint Check, and obtain a PIV Card prior to being permitted access to any such system in performance of this contract. HUD may accept a PIV Card issued by another Federal Government agency but shall not be required to do so. No contractor employee will be permitted access to any HUD system without a PIV Card.

(2) All contractor employees who require access to mission-critical systems or sensitive information contained within a HUD system or application(s) are required to have a more extensive background investigation. The investigation shall be commensurate with the risk and security controls involved in managing, using, or operating the system or applications(s).

(c) *Citizenship-related requirements.* Each affected contractor employee as described in paragraph (b) of this clause shall be:

(1) A United States (U.S.) citizen; or,

(2) A national of the United States (see 8 U.S.C. 1408); or,

(3) An alien lawfully admitted into, and lawfully permitted to be employed in the United States, provided that for any such individual, the Government is able to obtain sufficient background information to

complete the investigation as required by this clause. Failure on the part of the contractor to provide sufficient information to perform a required investigation or the inability of the Government to verify information provided for affected contractor employees will result in denial of their access.

(d) *Background investigation process.*

(1) The Government Technical Representative (GTR) shall notify the contractor of those contractor employee positions requiring background investigations.

(i) For each contractor employee requiring access to HUD information systems, the contractor shall submit the following properly completed forms: Standard Form (SF) 85, "Questionnaire for Non-Sensitive Positions," FD 258 (Fingerprint Chart), and a partial Optional Form (OF) 306 (Items 1, 2, 6, 8-13, 16, and 17).

(ii) For each contractor employee requiring access to mission-critical systems and/or sensitive information contained within a HUD system and/or application(s), the contractor shall submit the following properly completed forms: SF-85P, "Questionnaire for Public Trust Positions," FD 258; and a Fair Credit Reporting Act form (authorization for the credit-check portion of the investigation). Contractor employees shall not complete the Medical Release behind the SF-85P.

(iii) The SF-85, 85P, and OF-306 are available from OPM's Web site, <http://www.opm.gov>. The GTR will provide all other forms that are not obtainable via the Internet.

(2) The contractor shall deliver the forms and information required in paragraph (d)(1) of this clause to the GTR.

(3) Affected contractor employees who have had a federal background investigation without a subsequent break in federal employment or federal contract service exceeding 2 years may be exempt from the investigation requirements of this clause subject to verification of the previous investigation. For each such employee, the contractor shall submit the following information in lieu of the forms and information listed in paragraph (d)(1) of this clause: Employee's full name, Social Security number, and place and date of birth.

(4) The investigation process shall consist of a range of personal background inquiries and contacts (written and personal) and verification

of the information provided on the investigative forms described in paragraph (d)(1) of this clause.

(5) Upon completion of the investigation process, the GTR will notify the contractor if any contractor employee is determined to be unsuitable to have access to the system(s), application(s), or information. Such an employee may not be given access to those resources. If any such employee has already been given access pending the results of the background investigation, the contractor shall ensure that the employee's access is revoked immediately upon receipt of the GTR's notification.

(6) Failure of the GTR to notify the contractor (see subparagraph (d)(1)) of any employee who should be subject to the requirements of this clause and is known, or should reasonably be known, by the contractor to be subject to the requirements of this clause, shall not excuse the contractor from making such employee(s) known to the GTR. Any such employee who is identified and is working under the contract, without having had the appropriate background investigation or furnished the required forms for the investigation, shall cease to perform such work immediately and shall not be given access to the system(s) /application(s) described in paragraph (b) of this clause until the contractor has provided the investigative forms required in paragraph (d)(1) of this clause for the employee to the GTR

(7) The contractor shall notify the GTR in writing whenever a contractor employee for whom a background investigation package was required and submitted to HUD, or for whom a background investigation was completed, terminates employment with the contractor or otherwise is no longer performing work under this contract that requires access to the system(s), application(s), or information. The contractor shall provide a copy of the written notice to the Contracting Officer.

(e) *PIV Cards.* (1) HUD will issue a PIV Card to each contractor employee who is to be given access to HUD systems and does not already possess a PIV Card acceptable to HUD (see paragraph (b) of this clause). HUD will not issue the PIV Card until the contractor employee has successfully cleared an FBI National Criminal History Fingerprint Check, and HUD has initiated the background investigation for the contractor employee. Initiation is defined to mean that all background information required in paragraph (d)(1) of this clause has been delivered to HUD. The employee may not be given access prior to those two events. HUD may issue a PIV Card and grant access pending the completion of the background investigation. HUD will revoke the PIV Card and the employee's access if the background investigation process (including adjudication of investigation results) for the employee has not been completed within 6 months after the issuance of the PIV Card.

(2) PIV Cards shall identify individuals as contractor employees. Contractor employees shall display their PIV Cards on their persons at all times while working in a HUD facility, and shall present cards for inspection upon request by HUD officials or HUD security personnel.

(3) The contractor shall be responsible for all PIV Cards issued to the contractor's employees and shall immediately notify the GTR if any PIV Card(s) cannot be accounted for. The contractor shall promptly return PIV Cards to HUD as required by the FAR clause at 52.204-9. The contractor shall notify the GTR immediately whenever any contractor employee no longer has a need for his/her HUD-issued PIV Card (e.g., the employee terminates employment with the contractor, the employee's duties no longer require access to HUD systems). The GTR will instruct the contractor as to how to return the PIV Card. Upon expiration of this contract, the GTR will instruct the contractor as to how to return all HUD-issued PIV Cards not previously returned. Unless otherwise directed by the Contracting Officer, the contractor shall not return PIV Cards to any person other than the GTR.

(f) *Control of access.* HUD shall have and exercise full and complete control over granting, denying, withholding, and terminating access of contractor employees to HUD systems. The GTR will notify the contractor immediately when HUD has determined that an employee is unsuitable or unfit to be permitted access to a HUD system. The contractor shall immediately notify such employee that he/she no longer has access to any HUD system, physically retrieve the employee's PIV Card from the employee, and provide a suitable replacement employee in accordance with the requirements of this clause.

(g) *Incident response notification.* An incident is defined as an event, either accidental or deliberate, that results in unauthorized access, loss, disclosure, modification, or destruction of information technology systems, applications, or data. The contractor shall immediately notify the GTR and the Contracting Officer of any known or suspected incident, or any unauthorized disclosure of the information contained in the system(s) to which the contractor has access.

(h) *Nondisclosure of information.* (1) Neither the contractor nor any of its employees shall divulge or release data or information developed or obtained during performance of this contract, except to authorized government personnel with an established need to know, or upon written approval of the Contracting Officer. Information contained in all source documents and other media provided by HUD is the sole property of HUD.

(2) The contractor shall require that all employees who may have access to the system(s)/applications(s) identified in paragraph (b) of this clause sign

a pledge of nondisclosure of information. The employees shall sign these pledges before they are permitted to perform work under this contract. The contractor shall maintain the signed pledges for a period of 3 years after final payment under this contract. The contractor shall provide a copy of these pledges to the GTR.

(i) *Security procedures.* (1) The Contractor shall comply with applicable federal and HUD statutes, regulations, policies, and procedures governing the security of the system(s) to which the contractor's employees have access including, but not limited to:

(i) The Federal Information Security Management Act (FISMA) of 2002;

(ii) OMB Circular A-130, *Management of Federal Information Resources*, Appendix III, Security of Federal Automated Information Resources;

(iii) HUD Handbook 2400.25, *Information Technology Security Policy*;

(iv) HUD Handbook 732.3, *Personnel Security/Suitability*;

(v) Federal Information Processing Standards 201 (FIPS 201), Sections 2.1 and 2.2;

(vi) Homeland Security Presidential Directive 12 (HSPD-12); and

(vii) OMB Memorandum M-05-24, *Implementing Guidance for HSPD-12*. The HUD Handbooks are available online at: <http://www.hud.gov/offices/adm/hudclips/> or from the GTR.

(2) The contractor shall develop and maintain a compliance matrix that lists each requirement set forth in paragraphs, (b), (c), (d), (e), (f), (g), (h), (i)(1), and (m) of this clause with specific actions taken, and/or procedures implemented, to satisfy each requirement. The contractor shall identify an accountable person for each requirement, the date upon which actions/procedures were initiated/ completed, and certify that information contained in this compliance matrix is correct. The contractor shall ensure that information in this compliance matrix is complete, accurate, and up-to-date at all times for the duration of this contract. Upon request, the contractor shall provide copies of the current matrix to HUD.

(3) The Contractor shall ensure that its employees, in performance of the contract, receive annual training (or once if the contract is for less than one

year) in HUD information technology security policies, procedures, computer ethics, and best practices in accordance with HUD Handbook 2400.25.

(j) *Access to contractor's systems.* The Contractor shall afford HUD, including the Office of Inspector General, access to the Contractor's facilities, installations, operations, documentation (including the compliance matrix required under paragraph (i)(2) of this clause), databases, and personnel used in performance of the contract. Access shall be provided to the extent required to carry out, but not limited to, any information security program activities, investigation, and audit to safeguard against threats and hazards to the integrity, availability, and confidentiality of HUD data and systems, or to the function of information systems operated on behalf of HUD, and to preserve evidence of computer crime.

(k) *Contractor compliance with this clause.* Failure on the part of the contractor to comply with the terms of this clause may result in termination of this contract for default.

(l) *Physical access to Federal Government facilities.* The contractor and any subcontractor(s) shall also comply with the requirements of HUDAR clause 2452.237-75 when the contractor's or subcontractor's employees will perform any work under this contract on site in a HUD or other Federal Government facility.

(m) *Subcontracts.* The contractor shall incorporate this clause in all subcontracts where the requirements specified in paragraph (b) of this section are applicable to performance of the subcontract.

(End of clause)

2452.239-71 Information Technology Virus Security. (FEB 2006)

(a) The contractor hereby agrees to make every reasonable effort to deliver information technology products to HUD free of known computer viruses. The contractor shall be responsible for examining all such products prior to their delivery to HUD using software tools and processes capable of detecting all known viruses.

(b) The contractor shall include the following statement on deliveries of hardware, software, and data products, including diskettes, made under this contract:

[product description, part/catalog number, other identifier, and serial number, if any]

"This product has been scanned for known viruses using *[name of virus-screening*

product, including version number, if any] and is certified to be free of known viruses at the time of delivery."

(c) The Contracting Officer may assess monetary damages against the contractor sufficient to compensate HUD for actual or estimated costs resulting from computer virus damage or malicious destruction of computer information arising from the contractor's failure to take adequate precautions to preclude delivery of virus-containing products in the delivery of hardware, software, or data on diskettes under this contract.

(d) This clause shall not limit the rights of the government under any other clause of this contract.

(End of clause)

2452.251-70 Contractor employee travel. (OCT 1999)

List of Documents, Exhibits and Other Attachments Section J

Attachment Number	Attachment Title	Date	Number of Pages	Cross Reference Materials	Document Version
1	Performance Work Statement Template	12/10/2015	18		BASE
2	Quality Assurance Surveillance	12/10/2015	4		BASE
3	Labor Worksheet	12/10/2015	7		BASE
4	Material Worksheet	12/10/2015	3		BASE
5	Other Worksheet	12/10/2015	3		BASE
6	PRS	12/10/2015	2		BASE
7	Structured Approach	12/10/2015	9		BASE
8	List of Deliverables	12/10/2015	1		BASE
9	TINA	12/10/2015	1		BASE
10	Definitions	12/10/2015	1		BASE
11	Non-Disclosure Statement	12/10/2015	1		BASE

12	Tech Refresh Template	12/10/2015	1		BASE
13	Solicitation Questions Format	12/10/2015	1		BASE

2452.219-74 Small business subcontracting goals. (DEC 2012)

(a) This provision does not apply to offerors that are small businesses.

(b) The offeror's attention is directed to the FAR clause at 52.219-9, "Small Business Subcontracting Plan," herein. HUD will evaluate proposed subcontracting plans using the Departmental small business subcontracting goals set forth in paragraph (c) of this clause. Offerors that are unable to propose subcontracting that meets HUD's established goals must provide the rationale for their proposed level of subcontracting.

(c) HUD's subcontracting goals are as follows:

(i) Small Business-55% (*Contracting Officer insert HUD small business subcontracting goal percentage*)

(ii) The total Small Business goal shown in paragraph (c)(i) of this clause contains the following subordinate goals:

(A) Small Disadvantaged Business- 5%

(B) Women-Owned Small Business- 5%

(C) Service-Disabled Veteran-Owned Small Business- 3%

(D) HUBZone Small Business- 3%

(End of Provision)

2452.233-70 Review of contracting officer protest decisions. (FEB 2006)

(a) In accordance with FAR 33.103 and HUDAR 2433.103, a protester may request an appeal of the Contracting Officer's decision concerning a protest initially made by the protester to the Contracting Officer. The protestor must submit a written request for an appeal to [*insert name of HCA and address*] not later than 10 days after the protestor's receipt of the Contracting Officer's decision

(see FAR 33.101 for the definition of "days").

(b) The HCA shall make an independent review of the Contracting Officer's decision and provide the protester with the HCA's decision on the appeal.

(End of provision)

Representations, Certifications, and Other Statements of Bidders Section K

Instructions, Conditions, and Notices to Bidders Section L

- L1. Offerors may propose Contract Line Item Number Structure based on their technical solution
- L2. Offerors must submit the Performance Work Statement and Quality Assurance Surveillance Plan in the format provided. See attachment 1 and 2.
- L3. Questions are due March 4, 2016 no exceptions. Offerors must use the attached question format. See attachment 13.

To be Completed with Final Solicitation

Evaluation Factors for Award Section M

To be Added with Final Solicitation

	LABOR DISTRIBUTION							
PWS	Description	LABOR CATEGORY			LABOR CATEGORY			
		Program Manager			System Engineer			
		Based Period - HOURS	Base Period -Total Price/Cost	FTE - based on 1920	Based Period - HOURS	Base Period -Total Price/Cost	FTE - based on 1920	Based Period - HOURS
	Database Management							
	Enterprise Engineering							
	Telecommunications							
	Unified Communications							
	Webcasting Services							
	Desktops and Notebooks							
	Installations, Moves, Additions Changes and				Repeat the information for the option years.			
	Performance Modeling							
	Technology Assessment							
	System Acceptance							
	Intergration and Testing							
	Facilities Management							
	Security							

Attachment 3

	Security, Engineering and Initiatives							
	CDM Tool							
	Printing and Distribution							
	Configuration Management							
	Program Management							
	Quality Control							
	QC Tool							
	LAN Administration							
	LAN Administration & Backup							
	Active Directory Consolidation							
	Email Administration & Support							
	Collaboration Administration & Support							

Attachment 3

	Tape Management							

SAMPLE

[illegible]

	MATERIAL DISTRIBUTION				
PWS	Description				COMMENT
		Base Period - Quantity	Description	Base Period -Total Price/Cost	
	Database Management				
	Enterprise Engineering				
	Telecommunications				
	Unified Communications				
	Webcasting Services				
	Desktops and Notebooks				
	Installations, Moves, Additions Changes and Relocations				
	Performance Modeling				
	Technology Assessment				
	System Acceptance				
	Intergration and Testing				
	Facilities Management				
	Security				
	Security, Engineering and Initiatives				

Repeat the information for the option years.

Attachment 4

	CDM Tool				
	Printing and Distribution				
	Configuration Management				
	Program Management				
	Quality Control				
	QC Tool				
	LAN Administration				
	LAN Administration & Backup				
	Active Directory Consolidation				
	Email Administration & Support				
	Collaboration Administration & Support				
	Tape Management				

	OTHER DISTRIBUTION				
PWS	Description				COMMENT
		Base Period - Quantity	Description	Base Period -Total Price/Cost	
3.1	Database Management				
	Enterprise Engineering				
	Telecommunications				
	Unified Communications				
	Webcasting Services				
	Desktops and Notebooks				
	Installations, Moves, Additions Changes and Relocations				
	Performance Modeling				
	Technology Assessment				
	System Acceptance				
	Intergration and Testing				
	Facilities Management				
	Security				
	Security, Engineering and Initiatives				

Repeat the information for
the option years.

	CDM Tool				
	Printing and Distribution				
	Configuration Management				
	Program Management				
	Quality Control				
	QC Tool				
	LAN Administration				
	LAN Administration & Backup				
	Active Directory Consolidation				
	Email Administration & Support				
	Collaboration Administration & Support				
	Tape Management				

**Performance Requirement Summary
(PRS)**

PURPOSE

The PRS is the mechanism for HUD to assess the performance of the Contractor in their continued requirements to manage, maintain and support the HITS infrastructure. The PRS defines the Acceptable Quality Level (AQL) and the associated frequency and mechanism for measuring the contractor's performance in compliance with the contract. The PRS ensures that the Contractor's quality system and quality control (QC) activities meet the performance requirements of the HITS contract and meet the satisfactory level and definition of satisfactory of each CPARS evaluation areas.

PWS PARA(s) Contractor to Fill in	Performance Description	Frequency	Performance Standard	AQL	Method of Surveillance	Means	Method of Surveillance Details	CPARS ELEMENTS
	Database Management Customer Satisfaction	Biannually	Survey will be issued to participants. The survey will consist of six scored questions.	75%	100% Inspection	Customer Survey	Survey will be issued to participants. The survey will consist of six scored questions. Satisfaction level will be the percentage of satisfied respondents, calculated by the number of respondents who answered "Neutral", "Satisfied", or "Very Satisfied" divided by the total number of respondents. If the percentage of survey responses falls below the HUD practice for statistically significant results, the Contractor will be credited with meeting the AQL.	Quality, Management of Key Personnel, and Business Relationships
	VTC Availability	Quarterly		90%		VTC Scheduler and ServiceDesk	VTC availability is based on the number of VTC scheduled end points including EX90, C40, SX20, Jabber clients, and scheduled "off net" sites (e.g.	Schedule and Business Relationship

Attachment 6

					Random Sampling	Tickets	FEMA). Any end point for which a trouble ticket is opened during a VTC due to quality or performance issues is designated a “problem endpoint.” VTC availability is based on the following equation <u>Total Scheduled End Points – Problem End Points</u> x100 = Percent Available Total End Points Example: <u>(40 Scheduled End Points – 1 End Point unable to view HD VTC x 100)/ 40 End Points</u> = 97.5% Calculation will be done monthly and submitted quarterly.	
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STRUCTURED APPROACH PROFIT/FEE OBJECTIVE

Contract¹ Number:

Task Order Number (if applicable):

Modification Number (if applicable):

Offeror's/Contractor's Name:

Contractor Effort				
Cost Category	(a) Gov't Cost Objective	(b) Weight Range	(c) Assigned Weight (%)	(d) Profit/Fee Objectives
Direct Labor	\$	4% - 15%		\$
Materials, Supplies & Equipment	\$	1% - 5%		\$
Fringe Benefits/Overhead	\$	4% - 9%		\$
Subcontracts/Consultants	\$	1% - 5%		\$
Other Direct Costs	\$	1% - 3%		\$
General & Admin Expense	\$	4% - 8%		\$
Total Cost Objective (TCO)	\$	Base Profit/Fee Objective		\$
Minus Facilities Capital Cost of Money proposed	-\$			
Net Cost Objective (NCO)	\$			
Other Factors				
Cost Risk		0% - 5%		\$
Investment		-2% - 2%		\$
Past Performance		-1% - 1%		\$
Socio-economic programs		-0.5% - 0.5%		\$
Special situations		-0.5% - 0.5%		\$
Total Profit/Fee Objective (Base Profit/Fee + Other Factors)				\$
Less Facilities Capital Cost of Money Allowed				-\$
Net Profit/Fee Objective				\$
Total Profit/Fee Objective as Percentage (TCO/Net or NCO/Net) ²				%
Nonprofit reduction (- 3%)				-3%
Total Nonprofit Fee Objective				%
Prepared by:	Signature			Date

¹ This format may be used for new awards, task orders, and modifications (see Handbook 2210.3, Chapters 5 and 12).

² Total fee may not exceed limitations in FAR 15.404-4(c)(4).

1. General

The structured approach may be used whenever determining fee/profit objectives (e.g., new contract awards, new task orders, definitizing supplemental agreements pursuant to changes orders).

Contractors are not required to submit details of their profit/fee objectives, but may do so if they wish. There is no requirement for the Government and the contractor to agree on each element of profit/fee. However, the details of each element may be discussed during negotiations. When the contractor's and the Government's profit/fee positions are far apart, it may be useful for both to disclose their weightings and rationale used for common elements. The Government's position should *not* be revealed unilaterally.

The term contractor shall mean offeror if the structured approach is being used to develop a profit/fee objective for a new contract award.

No negotiated fee may exceed the limits set in FAR 15.404-4(c)(4).

2. Government Cost Objectives

For each cost category under Contractor Effort insert the Government cost objective in column (a). The cost objectives are the amounts derived from the analysis of the proposed costs and represent what the Government believes to be reasonable. For example, an offeror proposes \$100,000 for direct labor, but the cost analysis produces an objective of \$85,000, which is used in column (a). Add the individual line item objectives under Contractor Effort and enter that sum in the block next to "Total Cost Objective."

If the contractor has included Facilities Capital Cost of Money in his/her proposal, subtract the amount of those costs and insert the result in the box labeled "Net Cost Objective." (See item 4 below.)

3. Assign Weights

For each Cost Category under Contractor Effort and each of the Other Factors, assign a percentage weight within the designated range in column (b) using the following guidance. Insert the percentage weight in column (c).

Contractor Effort

Contractor effort is a measure of how much the contractor is expected to contribute to meet the contract's performance requirements in an *efficient* manner. This factor, which is apart from the contractor's responsibility for contract performance, takes into account what resources are necessary and what the contractor must do to accomplish a conversion of ideas and material into the final services and/or products required by the contract. For a given service or product, necessary efforts on the part of individual contractors can vary widely in both quantity and dollar value. The profit objective should reflect the extent and nature of the individual contractor's contribution to total performance. A major consideration, particularly in connection with experimental, developmental, or research work, is the difficulty or complexity of the work to be performed, and any unusual demands of the contract, such as whether the project involves a new approach unrelated to existing technology and/or equipment or only refinements to these items.

Direct Labor (4% to 15%)

This factor includes all direct labor (professional, semiprofessional, service) to be used in performing the contract. Evaluate the quality and quantity of the professional and other labor to be employed. Consider:

- The talents, service skills and experience of the proposed labor. Greater weight should be given for notable, unusual or scarce talent needed to meet the contract's requirements. As a general rule, greater effort, better qualifications and expertise, and more highly skilled labor warrant a higher percentage weight than routine effort, etc. However, contractors should not be rewarded for proposing more effort, or personnel with higher skill and experience levels than are reasonably necessary to perform the contract.
- The contribution the proposed talent will provide toward achieving contract objectives. Since nonprofessional labor is relatively plentiful and rather easily obtained by the contractor and is less critical to the successful performance of contract objectives, it cannot be weighted nearly as high as professional or semiprofessional labor. Service contract labor should be evaluated similarly, assigning higher weights to engineering or professional type skills required for contract performance. The variety of other categories of required labor skills and the contractor's manpower resources for meeting these requirements should be considered in the same way.

For purposes of evaluation, categories of labor that do not fall within the definition for professional or service labor (e.g., quality control, receiving and inspection, etc.) may be categorized as appropriate. However, the same evaluation considerations as outlined in this paragraph will be applied.

Materials/Supplies/Equipment (1% to 5%)

Evaluate the managerial and technical effort needed to obtain materials, supplies or equipment needed to perform the contract. Will the contractor obtain the items by routine order from readily available commercial sources or by detailed subcontracts for which the contractor will be required to develop specifications? Normally, material and supply acquisition should receive a low weight. Higher weights should be given only in exceptional instances (e.g., acquiring specialized equipment that will require constant maintenance).

Fringe Benefits/Overhead (4% to 9%)

General & Administrative Expense (4% to 8%)

Evaluate of the makeup of these expenses and how much they contribute to contract performance. To the extent practicable, analysis should include a determination of the amount of labor within these overhead pools and how this labor should be treated if it were considered as direct labor under the contract. The allocable labor elements should be given the same profit considerations that they would receive if they were treated as direct labor. The other elements of these overhead pools should be evaluated to determine whether they are routine expenses, such as utilities and maintenance, and hence given lesser profit consideration, or whether they are significant contributing elements. The composite of the individual determinations in relation to the elements of the overhead pools will be the profit consideration given the pools as a whole. The procedure for assigning relative values to these overhead expenses differs from the method used in assigning values of the direct labor. The upper and lower limits assignable to the direct labor are absolute. In the case of overhead expenses, individual expenses may be assigned values outside the range as long as the composite ratio is within the range.

Note: It is not necessary that the contractor's accounting system break down overhead expenses within the classifications of research overhead, other overhead pools, and general administrative expenses, unless dictated otherwise by Cost Accounting Standards (CAS; see 48 CFR Chapter 99, Appendix to the FAR looseleaf edition). The contractor whose accounting system reflects only one overhead rate on all direct labor need not change its system (if CAS exempt) to correspond with these classifications. The contracting officer, in an evaluation of such a contractor's overhead rate, could break out the applicable sections of the composite rate which could be classified as research overhead, other overhead pools, and general and administrative expenses, and follow the appropriate evaluation technique.

Management problems surface in various degrees and the management expertise exercised to solve them should be considered as an element of profit. For example, a contract for a new program for research or an item that is on the cutting edge of the state of the art will cause more problems and require more managerial time and abilities of a higher order than a follow-on contract. If new contracts create more problems and require a higher profit weight, follow-ons should be adjusted downward because many of the problems should have been solved. In any event, an evaluation should be made of the underlying managerial effort involved on a case-by-case basis.

It may not be necessary for the contracting officer to make a separate profit evaluation of overhead expenses in connection with each acquisition action for substantially the same project with the same contractor. Where an analysis of the profit weight to be assigned to the overhead pool has been made under a recent contract, that weight may be used for future acquisitions with the same contractor until there is a change in the cost composition of the overhead pool or the contract circumstances.

Subcontracts (1% - 5%)

Evaluate the contractor's managerial and technical effort required to obtain required subcontracted items services. Consider the following:

- The nature of the items/services to be obtained under subcontract. Are they readily available commercial items/services, or are they new, unique, and/or complex? Will the contractor have to develop complex specifications/SOWs. Subcontracting for commercial items/services should be weighted significantly lower than new, unique, and/or complex subcontracts, which may demand considerable effort on the part of the prime contractor.
- Will the contractor obtain the items/services from readily available sources or will he/she have to locate sources? by detailed subcontracts for which the contractor will be required to develop, or oversee the development of, complex specifications.
- Will the subcontracts be placed using simple (sealed bids) or complex (negotiated) methods?
- How much effort will the contractor contribute in administering the subcontracts? Does the contractor routinely obtain these services under subcontract (i.e., it will take relatively little effort), or will these be new subcontracting efforts?

Normally, the lowest unadjusted weight for subcontracting is 2 percent. A weighting of less than 2 percent would be appropriate only in unusual circumstances when there is a minimal contribution by the contractor. When the prime contractor will not subcontract for any services, this line item will not be included in the profit/fee calculation.

Other Direct Costs (1% - 3%)

This factor includes all other costs that are directly (i.e., not indirect, e.g., overhead) associated with contract performance (e.g., consultants, travel, telecommunications, etc.). Consider:

- The nature of the cost. Is it routine in the contractor's normal conduct of business, or is it unique to contract effort?
- What will the cost item contribute to contract performance?

- How much administrative will these costs require of the contractor? Many of these costs (e.g., travel) require minimal administrative effort by the contractor and, therefore, usually receive a weight no greater than 1%.

Note: The contractor may designate individuals as consultants, but in reality these individuals may be obtained by the contractor to supplement its workforce in the performance of routine duties required by contract. In that case, these costs should normally receive a minimum weight. However, there will be instances when the contractor may be required to locate and obtain the services of consultants having expertise in highly specialized fields. In these instances, the contractor will be required to expend greater managerial and technical effort to obtain these services and, consequently, the costs should receive a much greater weight.

Other Factors

(Note: Given the narrow weight ranges for these factors, it is appropriate to assign weights using fractions of a percent; e.g., 2.5%, 0.75%, etc.)

Contract Cost Risk (0% to 5%)

The amount of profit/fee should be commensurate with the amount of cost risk to be borne by the contractor (i.e., the greater the risk, the greater the reward). The contract type (see FAR Part 16) is the most important factor in determining the contractor's cost risk. Cost-plus-fixed-fee contracts present the least cost risk to the contractor. Firm fixed-price contracts present the greatest. Other contract types fall in between. (Note: This factor is limited to the *risk of contract costs*. Other risks on the part of the contractor (e.g., reputation, market share, loss of potential profits in other fields), or any risk that falls on the Government (e.g., risk of not acquiring a satisfactory deliverable) shall **not** be considered within the scope of this factor.)

Select a weight using the following ranges:

- Cost type contracts – 0% -3%
- Fixed-price type contracts – 2% - 5%

For specific contract types, assign weights relevant to their placement on the following contract cost risk scale (from greatest to least risk to the contractor):

Most Risk

Fixed-Price Type Contracts:

- Firm Fixed-Price
- Fixed-Price with Economic Price Adjustment
- Fixed-Price Incentive
- Fixed-Price Level-of-Effort Term

Cost Type Contracts:

- Cost
- Cost-Sharing
- Cost-Plus-Incentive-Fee
- Cost-Plus-Award-Fee
- Cost-Plus-Fixed-Fee¹

¹ Time-and-materials and labor-hour contracts normally should be considered to be cost-plus-a-fixed-fee contracts for the purpose of establishing profit weights.

Least Risk

Generally, a cost-plus-fixed fee contract will not justify a reward for risk in excess of 0.5 percent. A firm fixed-price contract should merit a reward of no less than 2 percent.

Contractors are likely to assume greater cost risk only if the Contracting Officer objectively analyzes the risk and is willing to compensate contractors for it.

Other factors may influence risk (e.g., unusual contingency provisions or risk-reducing measures). Evaluating risk requires a determination of the degree of cost responsibility the contractor assumes, the reliability of the cost estimates in relation to the task assumed, and the complexity of the work assumed by the contractor. Consider the following:

- The reliability of the cost estimates. Sound price negotiation requires well-defined contract objectives and reliable cost estimates. Prior experience assists the contractor in preparing reliable cost estimates on new acquisitions for similar related efforts. An excessive cost estimate reduces the possibility that the cost of performance will exceed the contract price, thereby reducing the contractor's assumption of contract cost risk.
- The difficulty of the required work. The contractor's task can be difficult or easy, regardless of the type of contract.
- The specific pricing arrangement. It is important to examine the specific pricing arrangement for each contract to determine the cost risk. For instance, a fixed-price-incentive contract that is closely priced with a low ceiling price and high incentive share may be tantamount to a firm fixed-price contract. In this situation, the Contracting Officer may determine that a basis exists for high confidence in the reasonableness of the estimate and that little opportunity exists for cost reduction without extraordinary efforts. On the other hand, a contract with a high ceiling and low incentive formula can be considered to contain cost-plus incentive-fee contract features. In this case, the Contracting Officer may determine that the Government is retaining much of the contract cost responsibility and that the risk assumed by the contractor is minimal. Similarly, if a cost-plus-incentive-fee contract includes an unlimited downward (negative) fee adjustment on cost control, it could be comparable to a fixed-price-incentive contract. In such a pricing environment, the contracting officer may determine that the Government has transferred a greater amount of cost responsibility to the contractor than is typical under a normal cost-plus-incentive-fee contract.
- Subcontracting. The contractor's subcontracting program may have a significant impact on the contractor's acceptance or risk under a contract form. It could cause risk to increase or decrease in terms of both cost and performance. This consideration should be a part of the contracting officer's overall evaluation in selecting a factor to apply for cost risk. For example, a prime contractor may effectively transfer real cost risk to a subcontractor and the contract cost risk evaluation may, as a result, be below the range that would otherwise apply for the contract type being proposed. The contract cost risk evaluation should not be lowered, however, merely on the basis that a substantial portion of the contract costs represents subcontracts without any substantial transfer of contractor's risk.

Definitizations of Letter Contracts and Unpriced Orders. In making a contract cost risk evaluation in an acquisition action that involves definitization of a letter contract, unpriced change order, or unpriced order under basic ordering agreement, consideration should be given to the effect on total contract cost

risk as a result of having partial performance before definitization. Under some circumstances it may be reasoned that the total amount of cost risk has been effectively reduced. Under other circumstances it may be apparent that the contractor's cost risk remained substantially unchanged. To be equitable in determining the profit weight, the Contracting Officer must consider all recognized costs, both those incurred and those yet to be incurred, and not just the portion of costs incurred, or percentage of work completed, prior to definitization.

Investment (-2% to 2%)

Generally, contractors are expected to perform their contracts with the minimum of assistance (e.g., financial, facilities, property, etc.) from the Government. The purpose of this factor is to encourage the contractor to acquire and use its own resources to the maximum extent possible. The evaluation of this factor should include an analysis of:

- Facilities (including equipment). (Note: This factor requires knowledge of the type and amount of facilities needed for contract performance, the source and financing of the required facilities, and the overall cost effectiveness of facilities offered by the contractor.) Contractors who furnish their own facilities which significantly contribute to lower total contract costs should be provided with additional profit. Contractors who rely on the Government to provide or finance needed facilities should receive a corresponding reduction in profit. Cases between these examples should be evaluated on their merits with either positive or negative adjustments, as appropriate, in profit being made. However, where a contractor's use of its own facilities has a minimum cost impact on the contract, profit need not be adjusted (e.g., the contractor can provide facilities not required by the contract). When applicable, the contractor's computation of facilities capital cost of money for pricing purposed under CAS 414 can help the Contracting Officer identify the level of facilities investment to be employed in contract performance.
- Payment method. Consider the frequency of payments by the Government to the contractor. The key to this weighting is to give proper consideration to the impact the contract will have on the contractor's cash flow. Generally, negative consideration should be given for advance payments and payments more frequent than monthly with maximum reduction being given as the contractor's working capital approaches zero. Positive consideration should be given for payments less frequent than monthly with additional consideration given for a capital turn-over rate on the contract which is less than the contractor's or the industry's normal capital turn-over rate.

Past Performance (-1% to 1%)

Evaluate the contractor's past performance including:

- Quality of services and/or products;
- Meeting performance schedules;
- Efficiency in cost control (including need for and reasonableness of costs incurred);
- Accuracy and reliability of previous cost estimates;
- Business relations (e.g., contractor's cooperation with the Government, or other buyer, on both business and technical matters); and,

- Timely processing of changes and compliance with other contractual provisions, and management of subcontract programs.

A contractor who has consistently achieved excellent results in these areas merits a greater profit weight. A poor record in this area should be reflected in a negative percentage.

Federal socioeconomic programs (–0.5% to 0.5%)

This factor relates to the contractor's success in Government-sponsored socio-economic programs (e.g., small business subcontracting, energy conservation efforts). Contractors with a proven track record of aggressively supporting Government socioeconomic programs and achieving successful results should be rewarded with higher weights. A history of failure or unwillingness on the part of a contractor to support Government socioeconomic programs should be viewed as evidence of poor performance and should receive a low weight.

Special situations (–0.5% to 0.5%)

The Contracting Officer may choose any reasonable percentages. Normally, the weight should not These may include, but are not limited to:

- Inventive and developmental contributions. Consider the extent and nature of contractor-initiated and financed independent development, provided that the Contracting Officer has made a determination that the effort will benefit the contract. Consider and weigh:
 - The importance of the development in furthering Departmental purposes or mission;
 - The demonstrable initiative in determining the need and application of the development;
 - The extent of the contractor's cost risk; and,
 - Whether the development cost was recovered directly or indirectly from Government sources.
- Unusual pricing agreements. Occasionally, a contractor will make unusual contract pricing arrangements under which the contractor agrees to cost ceilings (e.g., a ceiling on overhead rates for conditions other than those discussed at FAR 42.707). In these circumstances, the contractor should receive favorable consideration.
- Commercial Benefits. A negative profit weight may be appropriate when the contractor is expected to obtain spin-off benefits as a direct result of the contract (e.g., development of products or services with commercial application).

Facilities Capital Cost of Money

When facilities capital cost of money is included as an item of cost in the contractor's proposal, it shall **not** be included in the cost base for calculating profit/fee. In addition, a reduction in the profit/fee objective shall be made in the amount equal to the facilities capital cost of money allowed in accordance with FAR 31.205-10(a)(2). (Note: If the contractor does not propose this cost, a provision must be inserted in the contract that facilities capital cost of money is not an allowable cost.)

4. Profit/Fee Objective

- Calculate the profit/fee objective (dollar amount) for each factor under Contractor Effort by multiplying the assigned weight by the Government Cost Objective for the factor. Insert the products in column (d). Add the individual profit/fee objectives and insert the sum in the block labeled "Base Profit/Fee Objective."
- Calculate the profit/fee objective for each of the Other Factors by multiplying the assigned weight by either the Total Cost Objective or the Net Cost Objective (see item 2 above). Add the individual profit/fee objectives to the Base Profit/Fee Objective and enter the sum in the block labeled "Total Profit/Fee Objective."
- Subtract any amount of allowed Facilities Capital Cost of Money from the Total Profit/Fee Objective and enter the result in the block labeled "Net Profit/Fee Objective." Divide the Net Profit/Fee Objective by the Total Cost Objective or the Net Cost Objective as applicable. Enter the resulting amount in the box labeled "Total Profit/Fee Objective as Percentage."
- If the contractor is a nonprofit, subtract 3 percent from the percentage in the block above and enter the difference in the block labeled, "Total Nonprofit Fee Objective."

LIST OF DELIVERABLES

CDRL No.	PWS Para	Deliverable Title	Frequency	Due Date
A001	[PM]	Ad Hoc Report	As required	As required
C001	[EE]	HITS Enterprise Architecture document	Annually	Feburary 2015/ Feburary 2016

[Type text]

Certificate of Current Cost or Pricing Data

This is to certify that, to the best of my knowledge and belief, the cost or pricing data (as defined in section [2.101](#) of the Federal Acquisition Regulation (FAR) and required under FAR subsection [15.403-4](#)) submitted, either actually or by specific identification in writing, to the Contracting Officer or to the Contracting Officer's representative in support of _____ * are accurate, complete, and current as of _____ **.

This certification includes the cost or pricing data supporting any advance agreements and forward pricing rate agreements between the offeror and the Government that are part of the proposal.

Firm

Signature

Name

Title _____

Date of execution***

* Identify the proposal, request for price adjustment, or other submission involved, giving the appropriate identifying number (*e.g.*, RFP No.).

** Insert the day, month, and year when price negotiations were concluded and price agreement was reached or, if applicable, an earlier date agreed upon between the parties that is as close as practicable to the date of agreement on price.

*** Insert the day, month, and year of signing, which should be as close as practicable to the date when the price negotiations were concluded and the contract price was agreed to.

(End of certificate)

Attachment 10

DEFINITIONS

Help Desk Tier 1	Tier 1 serves as the first point of contact for most users and shall be responsible for performing the initial triage of problems. The Help Desk staff shall be responsible for following established scripts and researching knowledge databases to analyze problems and either resolve or submit to Tier 2 help desk support. When the Tier 1 operator is unable to resolve the caller's problem quickly, the call shall escalate to Tier 2 software support or request desk side support to resolve problems at a given location.
Help Desk Tier 2	Tier 2 personnel are more experienced in troubleshooting and, with remote desktop control tools, these personnel are integrated with staff that monitor and maintain the host, application, and network infrastructures. Some Tier 2 personnel shall be outside the contractor's staff as they perform core functions that are not within the scope of the contractor (e.g. network engineers, database analysts who work for the other contractor).
Help Desk Tier 3	Tier 3 personnel are engineers who are more experienced and capable than personnel at Tier 1 and Tier 2. For services under the contractor's scope of work, tier 3 engineers perform detailed troubleshooting and engineering and shall be the primary point of contact for vendor involvement for issues other than those that can be addressed by the contractor's on-hand staff. Some Tier 3 personnel shall be outside the contractor's staff as they perform core functions that are not within the scope of the contractor (e.g. network engineers, database analysts who work for the other contractor).
End of Life	End-of-life (EOL) is a term used with respect to a product supplied to customers, indicating that the product is in the end of its useful life (from the vendor's point-of-view), and a vendor intends to stop marketing , selling, or sustaining it. (The vendor may simply intend to limit or end support for the product.) In the specific case of product sales, a vendor may employ the more specific term " end-of-sale " (EOS). The time-frame after the last production date depends on the product and relates to the expected product lifetime from a customer's point-of-view.
Obsolescence	End-of-life (EOL) is a term used with respect to a product supplied to customers, indicating that the product is in the end of its useful life (from the vendor's point-of-view), and a vendor intends to stop marketing , selling, or sustaining it. (The vendor may simply intend to limit or end support for the product.) In the specific case of product sales, a vendor may employ the more specific term " end-of-sale " (EOS). The time-frame after the last production date depends on the product and relates to the expected product lifetime from a customer's point-of-view.

ATTACHMENT 11
Tech Refresh

A	B	C	D	E	F	G	H	
					To be completed by Offeror (include supporting documentation to justify cost/price)			
Hardware Product	Vendor	Quantity	End of Support Date	Comments	PWS Para #	CLIN	PRICE	COST
Switch - WS-C3560-24PS	Cisco	40	07/31/15	Switch deployed throughout enterprise				
Switch - WS-C3560-48PS	Cisco	139	07/31/15	Switch deployed throughout enterprise				
Switch - 4507-R	Cisco	2	07/31/15	2 switches in Lanham				
Switch - WS-X4013+ (Sup II+)	Cisco	125	07/31/15	Supervisor blades deployed throughout enterprise				
Switch - WS-X4515(SupIV)	Cisco	13	07/31/15	Supervisor blades deployed throughout enterprise				
Router - 2821 (Orlando INET)	Cisco	1	10/31/16	DR site router				
CX4-240 Clariion	EMC (Hardware)		01/01/16	Critical systems (Exchange/SharePoint)				
VTL (Virtual Tape Libraries)	EMC (Hardware)		06/01/15	Critical systems backup				
Avamar Grid	EMC	By terabyte	01/01/15	Backup storage. Moved to required tab with HUD concurrence				
GX4002 Intrusion Detection Device	IBM	1	01/26/15	Provides network IDS services (DMZ monitoring)				
Continuous Diagnostic and Mitigation servers	Microsoft	2 (est.)	New service required by DHS/HUD	HUD to provide SW modules via DHS, LM to price implementation and support				
Latitude E6410's	Dell	1152	12/01/16	Laptop refresh for base year				
Software Product	Vendor	Quantity	End of Support Date	Comments				
EMC Avamar 6.1.1.87	EMC		06/30/15	Enterprise backup				
EMC SourceOne 6.8.0	EMC		03/31/15	Email Archive				
McAfee Agent 4.6	McAfee		03/31/15	Enterprise virus protection				
McAfee ePolicy Orchestrator (ePO) 4.6.6	McAfee		12/31/15	Enterprise virus protection				
Internet Explorer 10	Microsoft		10/31/2015	Recommended ~1 browser upgrade per year, dependent on MS release cycle. HUD concurs, will be included in proposal as 1/yr cycle.				
Adobe reader 10	Adobe		11/18/15	HUD concurs, will be included in proposal as 1/yr cycle.				
			none listed					
PDF Converter 8.20.3315	Nuance			Upgrade may be needed/desired with future product releases. HUD concurs, will be included in proposal for upgraded based on Nuance release cycle				

TECHNOLOGY REFRESH TEMPLATE

PWS Performance Objective	Product Category	Product Category Description	Recommended Technology Refresh Timeframe / Cycle	Technology Refresh Driver

Key:

HEAT SI Objective	Identify the applicable SI Objective that the proposed hardware is addressing: Enterprise-Wide Services, Data Center Services, End User Services, Cloud Services, or LAN Services
Product Category	Identify the hardware category that is proposed to meet each SI Objective (e.g. Servers, storage devices, network devices, laptops, desktops, routers, or switches)
Product Category Description	Provide additional information on the recommended hardware for each category (e.g. vendor, class of product, specifications, etc.)
Recommended Technology Refresh Timeframe/Cycle	Identify hardware refresh intervals recommended for each hardware category
Technology Refresh Driver	Identify the technology refresh recommendation driver (e.g. performance recommendations, reliability recommendations, industry best practices, federal regulations, etc.)

HEAT SI Solicitation Questions
Attachment 13

[illegible]